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ABSTRACT

This guide to aviation education resources was compiled by the National Coalition for Aviation Education (NCAE) which represents government, industry, and labor. NCAE's mission is to: (1) promote aviation education activities and resources; (2) increase public understanding of the importance of aviation; and (3) support educational initiatives at the local, state, and national levels. This resource guide was developed to help educators identify and obtain aviation oriented educational materials and information. The guide is divided into two sections. The first section includes a list that contains the name of each member organization, the organization representative, address, telephone number, and a brief description of the organization. The second section contains detailed information about the resources that are available through each specific organization. (DDR)

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ED 411 143

National Coalition

Aviation Education

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A Guide to Aviation Education Resources

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National Coalition for Aviation Education (NCAE)

Mission Statement

The National Coalition for Aviation Education represents government, industry, and labor, united to promote aviation education activities and resources; increase public understanding of the importance of aviation; and support educational initiatives at the local, state and national levels.

Aerospace Education Foundation (AEF)
Aerospace Industries Association (AIA)
Aero Club Foundation of Washington
Air Line Pilots Association (ALPA)
Air Traffic Control Association (ATCA)
Air Transport Association (ATA)
Aircraft Electronics Association (AEA)
Aircraft Owners and Pilots Association (AOPA)
Airports Council International—North America (ACI-NA)
American Helicopter Society (AHS)
American Institute of Aeronautics and Astronautics (AIAA)
Aviation Distributors and Manufacturers Association (ADMA)
Civil Air Patrol (CAP)
Experimental Aircraft Association (EAA)
General Aviation Manufacturers Association (GAMA)
4-H Aerospace Education Programs
Helicopter Association International (HAI)
International Association of Machinists and Aerospace Workers (IAM)
International Society of Aviation Maintenance Professionals (ISAMP)
National Aeronautic Association (NAA)
National Agricultural Aviation Association (NAAA)
National Air Transportation Association (NATA)
National Aircraft Resale Association (NARA)
NASAO & the Center for Aviation Research and Education (NASAO/CARE)
National Aviation Exploring Committee
National Business Aircraft Association (NBAA)
The Ninety-Nines, Inc. (99's)
Professional Aviation Maintenance Association (PAMA)
Regional Airline Association (RAA)
Soaring Society of America (SSA)
University Aviation Association (UAA)
Women in Aviation, International (WAI)

In Partnership with NCAE:

Federal Aviation Administration
National Aeronautics and Space Administration (NASA)

National Coalition

Aviation Education

Dear Educators:

National Coalition for Aviation Education (NCAE) has developed this resource guide to help you identify and obtain aviation oriented educational materials and information. The guide is divided into two sections. Pages five through 13 list each member organization, the organization representative, address, telephone number, and a brief description of the organization. The second section, pages 15 through 72, provides detailed information about the resources that are available through each specific organization.

Please forward your request for the materials and/or information outlined in the second section of the resource guide directly to each member organization.

We hope that you will find this guide useful.

Sincerely,

National Coalition for Aviation Education

National Coalition for Aviation Education

Member Organizations

Aerospace Education Foundation (AEF)

Kelli Creamer
1501 Lee Hwy.
Arlington, VA 22209–1198
1 (800) 727–3337 ext. 4880 / Fax: (703) 247–5853
email aefstaff@aef.org

AEF provides educational programs for more than 150,000 students; awards 500 college scholarships; provides grants to 300 educators; and operates a nationwide teacher recognition program.

Aerospace Industries Association (AIA)

Alexis Allen
1250 Eye Street, N.W., Suite 1200
Washington, D.C. 20005
(202) 371-8544 / Fax: (202) 371-8470
e-mail alexis@aia-aerospace.org / *web* http://www.access.digex.net/~aia

AIA is the trade association representing the nation's manufacturers of commercial, military and business aircraft, helicopters, aircraft engines, missiles, spacecraft, and related components and equipment. Founded in 1919 as the Aeronautical Chamber of Commerce of America, AIA includes among its early members Orville Wright, Glenn H. Curtiss, and nearly every important aircraft manufacturer at that time.

Aero Club Foundation of Washington

E. Tazewell Ellet
P.O. Box 17295
Washington Dulles International Airport
Washington, DC 20041
(703) 327-7082 / Fax: (800) 322-3761

The Aero Club Foundation of Washington was created by the Aero Club of Washington in 1995 to advance the future of aviation and space through higher standards of learning and leadership.

Air Line Pilots Association (ALPA)

Don Skiados
Air Line Pilots Association
535 Herndon Pkwy.
Herndon, VA 20170
(703) 481-4444 / Fax: (703) 689-4370

ALPA represents 45,000 airline pilots at 36 U.S. worldwide, national, and regional/commuter airlines. ALPA promotes aviation safety, better working conditions, wages, safety, technology, and legislation through collective bargaining for its members.

Air Traffic Control Association (ATCA)

Jim Crook
Air Traffic Control Association
2300 Clarendon Blvd.
Arlington, VA 22201
(703) 522-5717 / Fax: (703) 527-7251

The Air Traffic Control Association is a professional association dedicated to advancements in the science and profession of air traffic control and aviation safety. ATCA's membership includes representatives of all facets of the air traffic control discipline such as air traffic control specialists, airway facilities technicians, managers, educators, scientists, engineers, individual pilots, airlines, government agencies, professional organizations, and companies which develop and produce air traffic control technology, equipment and services.

Air Transport Association (ATA)

Diana Cronan
Air Transport Association
1301 Pennsylvania Avenue, NW, Suite 1100
Washington, DC 20004
(202) 626-4172 / Fax: (202) 626–4181

ATA represents the interests of its 24 member airlines in technical, legal and political arenas. Its activities are designed to advocate and support measures which will further aviation safety, assure industry efficiency and growth and promote financial health.

Aircraft Electronics Association (AEA)

Monte R. Mitchell, Executive Director
AEA Educational Foundation, Inc.
P.O. Box 1963
Independence, MO 64055
(816) 373-6565 / Fax: (816) 478-3100
web http://AEAavnews.org

With more than 1,000 company members throughout the world, the Aircraft Electronics Association represents the general aviation segment of the aviation industry. The membership comprises of certified repair stations with avionics and/or instrument ratings, as well as most manufacturers of civil aviation avionics equipment and airframes.

Aircraft Owners and Pilots Association (AOPA)

Janette Prince
Aircraft Owners and Pilots Association
421 Aviation Way
Frederick, MD 21701
(301) 695-2160 / Fax: (301) 695-2375
e-mail janette.prince@aopa.org / *web* http://www.aopa.org

AOPA represents 340,000 general aviation aircraft owners and pilots who use their aircraft for non-commercial personal and business transportation, and provides free aviation education materials. AOPA members comprise 60 percent of the active pilots in the nation.

Airports Council International—North America (ACI-NA)

Victoria Pannell
Airports Council International — North America
1775 K Street, N.W., Suite 500
Washington, DC 20006
(202) 293-8500 / Fax: (202) 331-1362

The Airports Council International-North America (ACI-NA) is the "Voice of Airports" representing local, regional and state governing bodies that own and operate commercial airports in the United States, Canada and Bermuda; ACI-NA Member airports enplane more than 90 percent of the domestic and virtually all the international airline passenger and cargo traffic in North America. ACI-NA also encompasses Associates representing a wide variety of businesses that provide products and services to the air transportation industry.

American Helicopter Society (AHS)

Norm Mowbray
American Helicopter Society
217 N. Washington Street
Alexandria, VA 22314-2538
(703) 684-6777 / Fax: (703) 739-9279

AHS is the professional society for the advancement of vertical flight technology and its useful application throughout the world.

American Institute of Aeronautics and Astronautics (AIAA)

Patricia Carr
American Institute of Aeronautics and Astronautics
1801 Alexander Bell Drive, Suite 500
Reston, VA 20191-4344
(703) 264-7536 / Fax: (703) 264-7551
e-mail triciac@aiaa.org / *web* http://www.aiaa.org

For over 65 years, the American Institute of Aeronautics and Astonautics has been the principal society of aerospace engineers, scientists, and other professionals. AIAA is the nation's largest professional organization devoted to the progress of aviation, space, and defense.

AIAA addresses the needs of scientists, engineers, and allied professionals who conceive, design, develop, test, construct, and operate air and space vehicles, their associated systems and subsystems, as well as educators who train the professionals, researchers who continually renew the technology, managers who lead their efforts, and innovators who bring forth new concepts.

Aviation Distributors and Manufacturers Association (ADMA)

Patricia Lilly
Aviation Distributors and Manufacturers Association
1900 Arch Street
Philadelphia, PA 19103-1498
(215) 564-3484 / Fax: (215) 564-2175
email assnhqt@netaxs.com

ADMA represents approximately 100 distributors and manufacturers of aviation parts, components and suppliers.

Civil Air Patrol (CAP)

John Vickery
Aerospace Education Division
105 South Hansell Street
Maxwell AFB, AL 36112-6332
(334) 953-5095 / Fax: (334) 953-7771
web http://www.cap.af.mil
Aerospace Education: (334) 953-4239, *e-mail* jemerson@cap.af.mil
Membership: (334) 953-4260, *e-mail* jsistrunk@cap.af.mil

The Civil Air Patrol is an aviation-oriented, non-profit, volunteer organization. Its missions include Emergency Services for search and rescue and disaster relief; cadet programs to provide leadership training and life skills development; and Aerospace Education to its members and to communities, citizens, and educators across America.

EAA Aviation Foundation, Inc. (EAA)

Chuck Larsen
EAA Education Office
P.O. Box 3065
Oshkosh, WI 54903-3065
(414) 426-6815 / Fax: (414) 426-6765
web http://www.eaa.org

The EAA Aviation Foundation is dedicated to the discovery and fulfillment of individual potential through opportunities and challenges inspired by the dream of personal flight. Its mission focuses upon education, on man's quest for flight, and on research and innovation accomplished by individuals in aviation.

General Aviation Manufacturers Association (GAMA)

Bridgette Mikula
General Aviation Manufacturers Association
1400 K Street, N.W., Suite 801
Washington, DC 20005-2485
(202) 637-1378 / Fax: (202) 842-4063
email bmikula@generalaviation.org / *web* http://www.generalaviation.org

GAMA represents 53 U.S. manufacturers of general aviation aircraft, engines, avionics and related equipment. GAMA promotes better understanding of the air transportation environment and the important roles general aviation plays in the national economy and serving America's transportation needs.

4-H Aerospace Education Programs

Dr. Tony Cook
National Project Coordinator
4-H Aerospace Education Programs
214 Duncan Hall — ACES
Auburn University, AL 36849-5620
(205) 844-2233 / Fax: (205) 844-5354
email jacook@acenet.auburn.edu

4-H Aerospace Education Programs promote aerospace education through programs and resources for young people. 4-H is dedicated to improving and expanding the impact of the programs and developing new opportunities for youth and society.

Helicopter Association International (HAI)

Norm Mowbray
Helicopter Association International
1619 Duke Street
Alexandria, VA 22314-4646
(703) 683-4646 / Fax: (703) 683-4745

HAI is a non-profit professional trade association with over 1,100 member organizations in 51 nations. HAI is dedicated to promoting the helicopter as a safe and efficient method of transportation.

International Association of Machinists and Aerospace Workers (IAM)

James G. Conley
International Association of Machinists
9000 Machinists Place
Upper Marlboro, MD 20772-2687
(301) 967-4558 / Fax: (301) 967-4591

IAM is the largest labor organization representing air transportation in the United States including professional aircraft maintenance and manufacturing personnel.

International Society of Aviation Maintenance Professionals (ISAMP)

Chris Leonard
1008 Russell Lane
West Chester, PA 19382
610-399-9034/ Fax: 610-399-9035

The International Society of Aviation Maintenance Professionals (ISAMP) is the first voluntary professional standards and ethics organization representing aviation maintenance professionals.

National Aeronautic Association (NAA)

Raymond J. Johnson
National Aeronautic Association
1815 N. Fort Meyer Drive, Suite 700
Arlington, VA 22209
(703) 527-0226 / Fax: (703) 527-0229
e-mail naa@ids2.idsonline.com / *web* http://www.naa.ycg.org.

NAA's purpose is to coordinate and promote sport aviation within the United States; to represent sport aviation internationally; to oversee the establishment of all aviation and space records set in the U.S. and to promote aviation through national recognition of individual achievement.

National Agricultural Aviation Association (NAAA)

James B. Boillot
National Agricultural Aviation
1005 E Street, S.E.
Washington, DC 20003
(202) 546-5722 / Fax: (202) 546-5727

The NAAA is a national association of agricultural aviators who use aircraft to enhance this nation's food and fiber production, protect our forest resources, and control health limiting pests.

National Air Transportation Association (NATA)

Ann W. Devers
National Air Transportation Association
4226 King Street
Alexandria, VA 22302
(703) 845-9000 / Fax: (703) 845-8176

NATA represents the business interest of the nation's aviation service companies providing fueling, flight training, maintenance & repair, and on-demand charter service by more than 1,700 member companies with more than 100,000 employees.

National Aircraft Resale Association (NARA)

Susan L. Sheets
National Aircraft Resale Association
4226 King Street
Alexandria, VA 22302
(703)671-8273 / Fax: (703) 671-5848
web http://www.airshow.net/naratemp

The National Aircraft Resale Association (NARA) is a professional trade organization representing the most respectable companies in the field of aircraft sales and brokerage. NARA was organized to promote a consistently high set of ethical standards and business conduct.

National Association of State Aviation Officials (NASAO) and the Center for Aviation Research and Education (CARE)

Amy B. Koranda
Education Coordinator
National Association of State Aviation Officials
Metro Plaza One
8401 Colesville Road, Suite 505A
Silver Spring, MD 20910
(301) 585-0587/ Fax: (301) 585-1803
e-mail akoranda@nasao.org / *web* http://www.nasao.org

NASAO represents the state government aviation service agencies in all the states, as well as the aviation departments of Puerto Rico and Guam. The Center for Aviation Research and Education is a non-profit educational foundation affiliated with NASAO.

National Aviation Exploring Committee

Hal Shevers, Chairman
National Aviation Exploring Committee
c/o Sporty's Pilot Shop
Clermont County Airport
Batavia, OH 45103
(513) 735-9100 / Fax: (513) 735-9200

The National Aviation Exploring Committee is a group of aviation industry leaders who advise the Boy Scouts of America's Aviation Exploring program.

National Business Aircraft Association (NBAA)

Cassandra Bosco
National Business Aircraft Association
1200 18th Street, N.W., Suite 400
Washington, DC 20036
(202) 783-9362 / Fax: (202) 833-9668
web http://www.nbaa.org

NBAA represents the interests of over 4,100 companies which own, operate or support general aviation aircraft as an aid to business. NBAA members earn annual revenues in excess of $3 trillion and employ more than 16 million people worldwide. The NBAA Annual Meeting and Convention is the world's largest exhibition of purely civil aviation products and services.

The Ninety-Nines, Inc. (99's)

Loretta Gragg, Executive Director
The Ninety-Nines, Inc. International Headquarters
Box 695, 7100 Terminal Drive
Oklahoma City, OK 73159-0965
(405) 685-7969 / Fax: (405) 685-7985

The Ninety-Nines are dedicated to educational, charitable and/or scientific activities and purposes and are particularly concerned with promoting an interest and love of aviation among women.

Professional Aviation Maintenance Association (PAMA)

Anne A. Culver, Program Manager
Professional Aviation Maintenance Association
1200 18th Street NW, Suite 401
Washington, DC 20036-2506
(202) 296-0545 / Fax: (202) 296-0618
email 103524.144@compuserve.com / *web* http://www.pama.org

PAMA is a national professional association of aviation maintenance technicians, with some 4,000 individual members and 250 affiliated company members.

Regional Airline Association (RAA)

Deborah C. McElroy
Regional Airline Association
1200 19th Street, NW, Suite 300
Washington, DC 20036-2422
(202) 857-1170 / Fax: (202) 429-5113
e-mail raa@sba.com / *web* http://www.raa.org

The Regional Airline Association is a trade group representing U.S. regional airlines and the providers of the products and services that support the industry before the U.S. Congress, Federal Aviation Administration, Department of Transportation and other federal agencies. Founded in 1974, RAA also provides technical services to member airlines.

Soaring Society of America (SSA)

John H. Campbell
Chairman, Youth Committee
Soaring Society of America
P.O. Box E
Hobbs, NM 88241-1308
(505) 392-1177 / Fax: (505)392-8154
e-mail 74521.116@Compuserve.com / *web* http://acro.harvard.edu/SSA

SSA is a non-profit educational organization that seeks to foster and promote all phases of gliding and soaring on a national and international basis. SSA is a division of the National Aeronautic Association, which has delegated to it the USA supervision of FAI sailplane records and competitions.

University Aviation Association (UAA)

Frank Mitchell
AEC Chairman
University Aviation Association
3410 Skyway Drive
Auburn, AL 36830
(334) 844-2434 / Fax: (334) 844-2432
web http://www.unomaha.edu/~himbergr/uaa.html

Working through its officers, trustees, committees and professional staff, UAA represents all levels of the non-engineering technology element in collegiate aviation education.

Women in Aviation, International (WAI)

Dr. Peggy Baty
Women in Aviation, International
Morningstar Airport
3647 State Route 503 S.
West Alexandria, OH 45381
(937) 839-4647 / Fax: (937) 839-4645
e-mail 74777.7003@Compuserve.com

WAI represent women from all segments of the aviation industry — general, corporate, commercial, and military. WAI is dedicated to providing year-round resources to assist women in aviation and to encourage young women to consider aviation as a career or hobby. The organization provides educational outreach programs to educators, aviation industry members and young people nationwide.

In Partnership with NCAE

Federal Aviation Administration (FAA)

Phillip S. Woodruff
Federal Aviation Administration Headquarters Office/AHR–15
800 Independence Avenue, SW
Washington, DC 20591
(202) 267-3788 / Fax: (202) 267-5913
e-mail Phil_Woodruff@glenn.senate.gov.
web http://www.faa.gov *(FAA home page)* or
http://web.fie.com/fedix/faach.html
(Fedix Aviation Education and Career documents)

In addition to FAA's regulatory role in licensing pilots, maintenance, etc., FAA provides a variety of aviation education materials and advice, ranging from kindergarten to the university level.

National Aeronautics and Space Administration (NASA)

Deborah V. Gallaway
Education Liaison for Aeronautics
Office of Human Resources and Education
Education Division/Code FE
Washington, DC 20546
(202) 358-1110 / Fax: (202) 358-3048
web http://www.hq.nasa.gov/office/codef/education
web http://www.aero.hq.nasa.gov/hpcontent/edu.html
(NASA Aeronautic Centers and Education Materials)
Online NASA Science/Math Resources:
http://quest.arc.nasa.gov (K-12 Internet Project)
http://spacelink.msfc.nasa.gov (K-12 SpaceLink Project)

NASA's mission is to research, develop, verify, and transfer advanced aeronautics, space, and related technologies. We involve the educational community in our endeavors to inspire America's students, create learning opportunities, and enlighten inquisitive minds.

Aerospace Education Foundation (AEF)

Leading America into the 21st Century

AEF was established in 1956 by the Air Force Association (AFA) to provide aerospace education opportunities to Americans and students of all ages. AEF seeks to ensure that Americans appreciate the important role of aviation and space to our future; have the technical knowledge necessary to understand aerospace issues; and have the educational background required to pursue the technical careers required by an increasingly competitive world.

The Foundation also communicates directly to the American people about the importance of a strong aerospace base to our future economic health and national security, and to build appreciation among the American people about the role of the Air Force in securing our future. Other AEF activities support the Air Force's educational needs and recognize outstanding contributions in aerospace education.

Educating America's Youth

Visions of Exploration

Targets 4th, 5th, and 6th graders. Classrooms participating receive students journals, weekly lessons and supporting materials, and the USA TODAY newspaper for students. Lessons are designed to use space, science and technology issues in the newspaper to stimulate student interest in math and science.

Grants

Educator Grants support teachers with grants up to $250 for science, math and aerospace related activities in the classroom.

Civil Air Patrol and AFJROTC Grants provide funds up to $250 for aerospace related activities.

Chapter Matching Grants provide matching funds to chapters, up to $1,000 per year, for aerospace education activities. Please see you local AFA chapter for info.

Scholarships & Grants

Dr. Theodore von Karman Graduate Scholarships are a $5,000 scholarship awarded to top AFROTC graduates each year. These are used for graduate education in engineering, math or a technical science.

Angel Flight/Silver Wings Society Scholarship is a $1,000 scholarship awarded to rising juniors or seniors who are members of AnF/SWS.

AEF Air Force Spouse Scholarship awards 20 $1,000 scholarships to spouses of Air Force active duty, guard and reserve members who are pursuing undergraduate or graduate degrees.

Eagle Grants are $250 grants for the Air Force's top enlisted men and women who graduate from the Community College or the Air Force and go on and work towards their bachelor's degree, about 450 are given annually.

Recognizing Outstanding Contributions

Christa McAuliffe Memorial Award is given to an educator who has gone "the extra mile" to increase student interest in math, science and technology.

AEF Regional Teacher of the Year award recognizes an exceptional teacher in each one of AFA's 14 regions.

AFA Chapter Teacher of the Year recognizes outstanding contributions by a teacher in aerospace education. AFA chapters select the local teacher.

Sam K. Keith, Jr. Award is awarded to an AFA Chapter for outstanding contributions in aerospace education.

George D. Hardy Award is given to an AFA member for outstanding contributions in aerospace education.

AEF Fellowships are awarded to outstanding contributors to the nation, AFA or education.

AFJROTC Contest consists of AFJROTC units world–wide producing a five–minute videotape on how they meet their mission statement.

AFJROTC Academic Excellence Award is awarded to cadets who maintain a GPA of at least 3.33 for two consecutive semesters. The program is managed through AFJROTC headquarters.

Educating the Public

AEF educates the public through various books and publications, Foundation Forums, and Air Force National Defense Fellows Papers and the Defense & Airpower Series.

Raising Funds to Support Programs

Each year AEF conducts annual label and calendar fundraisers, fellowship programs and life memberships to support the programs listed above.

Aerospace Industries Association (AIA)

AIA is the trade organization representing the nation's manufacturers of commercial, military, and business aircraft, helicopters, aircraft engines, missiles spacecraft, and related components and equipment. Established in 1919, its original members included Orville Wright and every major aircraft manufacturer at that time.

AIA Top Ten Issues

- Aircraft Noise and Emissions
- Privatization and Outsourcing
- FAA Reform and Funding
- Implementation of Non-Government Standards Integrated Product Team Results
- Small Disadvantages Businesses and Women-Owned Small Businesses
- Export Credit Guarantee Facility for Defense Products
- Financial Disclosure
- Industry Compensation
- Acquisition Reform Progress Payments

AIA Publications & Services

AIA*Update*

AIA Annual Report

Annual Year-End Review and Forecast

Annual Aerospace Employment Survey

AIA Directory of Member Company Public Information Representatives

Aerospace Facts & Figures statistical yearbook

Fact Sheets on the contribution of aerospace to the nation's economy

To obtain more information about AIA and our activities, write to Communications, 1250 Eye Street, NW, Washington, DC 20005 or visit our World Wide Web homepage at http:www.access.digex.net/~aia.

Aero Club Foundation of Washington

The Aero Club Foundation of Washington was created by the Aero Club of Washington in 1995 to advance the future of aviation and space through higher standards of learning and leadership.

Aero Club Foundation Board of Governors

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Textron

James K. Coyne, Education
National Air Transportation Association

J.E. Murdock III, FAA/NTSB Liaison
Shaw, Pittman, Potts & Trowbridge

Irene Howie, Legal
Hogan & Hartson

Shelly Snyder, Membership
General Aviation Manufacturers Association

Leo J. Schefer, NASM Liaison
Washington Airports Task Force

Gregory O. Principatol, Policy & Program
Hunton & Williams

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Committee Chairs cont.

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John M. Moloney, Special Projects
Delta Air Lines

Glenn Rizner, Sponsorship
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Barry L. Valentine, Federal Aviation Administration
Pete West, National Business Aircraft Association
James A. Wilding, Metropolitan Washington Airports Authority

Air Line Pilots Association (ALPA)

The Air Line Pilots Association actively participates in aviation education through its Education Committee and the Pilot Information Program (PIP) designed to pass along valuable information to aspiring aviators. Through a variety of activities, ALPA pilots volunteer their time to talk about getting a start in the airline industry and their own experiences in training, employment, interviewing, and other topics of interest to flight students. Activities include visits to elementary, middle and high schools, universities and colleges, and trade shows where ALPA displays brochures and magazines.

ALPA maintains an outreach program and other support opportunities:

Pilot Information Program (PIP)

The Pilot Information Program (PIP) is an organization designed for anyone who is interested in becoming a pilot. For an annual fee of $20, PIP members receive valuable information on becoming a pilot and what it's like to be a pilot. Each month PIP members will receive *Air Line Pilot* magazine, published by ALPA for its members. In addition, a quarterly newsletter is published by PIP staff, training discounts are available to PIP members through ALPA's Preferred Training Provider (PTP) program, and each member receives a copy of *Flying the Line*, a history of the first half century of the Air Line Pilots Association. Finally, PIP members are entitled to discounts up to 25% off of Aviation Information Resources (AIR, Inc.) products and services.

Top Pilot Award — National Intercollegiate Flying Association (NIFA)

The ALPA Education Committee supports the National Intercollegiate Flying Association through its "Top Pilot" award at each of the regional NIFA flying meets and its national SAFECON meet each Spring. NIFA presents school flying teams with the opportunity to earn points for each event that is successfully completed. For the pilot who earns the most points throughout each regional meet, ALPA awards $500 and a trophy. For the individual pilot who earns the most points at the national meet, ALPA awards a $1,000 prize and an additional $1,000 to that pilot's school. In addition, ALPA provides volunteers who attend the regional and national airmeet, giving students a chance to meet face-to-face with airline pilots.

Scholarships

ALPA sponsors a variety of scholarships for children of deceased or medically retired ALPA pilots.

Air Traffic Control Association, Inc. (ATCA)

The Air Traffic Control Association is a professional association dedicated to advancements in the science and profession of air traffic control and aviation safety. ATCA's membership includes representatives of all facets of the air traffic control discipline such as air traffic control specialists, airway facilities technicians, managers, educators, scientists, engineers, individual pilots, airlines, government agencies, professional organizations, and companies which develop and produce air traffic control technology, equipment and services. ACTA makes the following services available to educators and students involved in aviation disciplines:

Programs

Each year, ATCA conducts an Annual Meeting, International Technical Program and Exhibits, featuring a four-day program of technical sessions on air traffic control and aviation safety issues, 200 booths of exhibits displaying the latest in air traffic control technology, equipment and services, and a variety of public service/informative events. In addition to the Annual Meeting, throughout the year ATCA conducts symposiums and technical meetings at various locations in the United States and abroad on current topics of interest to the air traffic control and aviation community. Registration for ATCA's annual meeting and all ATCA symposia are open to the public, with discounts for ATCA members.

Publications

Journal of Air Traffic Control, a quarterly magazine featuring scholarly articles on air traffic control, historical information, and aviation news impacting on air traffic control. Included with membership. Also available by subscription ($35 per year U.S., $45 per year outside the U.S.)

Air Traffic Control Association Bulletin, a monthly newsletter reporting on ATCA programs and activities, news and developments in the science of air traffic control, and current issues impacting ATCA. Included with membership in ATCA. Not available by subscription.

Proceedings of the ATCA Annual Meeting, International Technical Program and Exhibits, an annual sourcebook of air traffic control technical information and scholarly articles. Included with registration at ATCA's Annual Meeting, or available for purchase as single copy or in volume.

Air Traffic Control Quarterly, a quarterly journal of peer-reviewed and selected technical articles on air traffic control subjects. Edited by the Air Traffic Control Association Institute, Inc.; published by John Wiley and Sons of New York, New York. Available by subscription ($82.50 per year for ATCA members; $165 in the U.S. to the general public; $185 in Canada; $225 outside North America.) For subscription information contact John Wiley & Sons, Dept. 3-6284, 605 Third Avenue, New York, New York 10157-0228

(Approved by ATCA) *Air Traffic Control, How to Become an FAA Air Traffic Controller* by Walter S. Luffsey. New York, N.Y.: Random House, 1990. ISBN 0-679-73050-8. Available from bookstores or directly from Random House. $17.95

Scholarship Program

Once per year, the Air Traffic Control Association awards scholarships in the amount of $1,500 to $2,500 to deserving students engaged half to full-time in an aviation related course of study leading to a bachelors degree or higher at an accredited college or university. Scholarships in an amount up to $600 also are awarded to full-time aviation career employees engaged part-time in study designed to improve their job skills. Three to four scholarships are awarded to half- to full-time students each year; four or more scholarships are awarded to full-time employees. Selection is based upon financial need and academic record. Application deadline is August 1 of each year, with awards announced in October-November. For additional information and/or application forms, contact ATCA, 2300 Clarendon Boulevard, Suite 711, Arlington, Virginia 22201, telephone: (703) 522-5717.

Dues

Annual Membership Dues: $78 individual civilian/military (officer) professional; $45 student/developmental controllers; $30 military (enlisted); $500-$1,000 corporations. Membership in ATCA includes a subscription to the monthly Bulletin newsletter and quarterly Journal of Air Traffic Control.

Air Transport Association (ATA)

ATA represents the interests of the airline industry in technical, legal and political arenas. Its activities are designed to advocate and support measures which will further aviation safety, assure industry efficiency and growth and promote financial health. Today, the association's work includes several major initiatives:

- ATA seeks to increase the protection and security of passengers and cargo, ensuring that security measures used by both U.S. and foreign carriers meet the same high standards.
- ATA advocates the modernization of the Federal Aviation Administration's (FAA) air traffic control (ATC) system to improve the movement of aircraft.
- ATA seeks to improve the industry's ability to attract capital.
- ATA works to build broad understanding of the industry's public service performance in a deregulated environment and seeks to prevent legislative and regulatory actions which would impose rate, route, service or schedule controls on the airlines — many of which would penalize passengers and shippers.
- ATA focuses industry efforts to improve the airlines' strong safety record and minimize the impact of airline operations on the environment.
- ATA participates in shaping international aviation policy to assure that U.S. carriers can compete on equal terms with foreign carriers.
- ATA endeavors to reduce the disproportionate share of taxes and user fees placed on airlines and their passengers and opposes legislation and other initiatives which attempt to impose burdensome costs or taxes on the air travel industry and the traveling and shipping public at the federal, state or local level.

ATA has several informational brochures available, free to the public, which provide useful information regarding the airline industry. *The People of the Airlines* lists and explains the many career opportunities in the airline industry. This brochure provides addresses and phone numbers of ATA member airlines where students and the public can obtain additional information. *The Airline Handbook* was written as a guide for layman to the airline industry. This handbook provides a brief history of aviation as well as a general overview of the industry today. ATA also maintains an extensive aviation library. The topics in the library include general reference material, aviation history, industry statistics, legal and legislative works and other current information. The library is available to the public and will provide research assistance when necessary.

To receive a copy of ATA's *Airline Handbook* or the *People of the Airlines* brochure, write to ATA, Suite 1100, 1301 Pennsylvania Avenue, NW, Washington, DC 20004-1707.

Aircraft Electronics Association (AEA)

The Aircraft Electronics Association Educational Foundation is a charitable, tax-exempt foundation established to provide aviation education services in four program areas:

Scholarships: Develop, fund and manage a broad range of academic scholarships to be awarded to students attending post secondary educational institutions, including technical schools. Presently, there are approximately 25 AEA scholarships, totalling over $63,000 in financial assistance. Scholarship applications are handled through the Foundation's offices.

Training: Organize specialized technical and business skills training programs for the aviation industry.

Industry Support: Provide support for existing aviation related educational institutions.

Youth Awareness: Provide support for aviation organizations who offer youth awareness programs to acquaint younger individuals with the educational, professional, technical and recreational opportunities in aviation.

Memberships for educational institutions are available at $275 annually. This membership offers a wide variety of services and benefits. Membership applications are available through the international office.

Other publications available include the monthly association magazine, *AVIONICS NEWS* (free of charge) and the AEA *Annual Rate and Labor Survey* at $40 per copy.

Aircraft Owners and Pilots Association (AOPA)

AOPA: A New Aviation Education Resource

America's Pilots Participating in Local Education—it's key to ensuring a future for aviation. It's also the name of AOPA's aviation education program, better known as APPLE. Through the APPLE program, AOPA provides free materials to teachers and pilots to help them share aviation with students.

AOPA's Aviation Education Resources

A Teacher's Guide to Aviation

AOPA's brochure A Teacher's Guide to Aviation is a popular introduction to aviation as a teaching tool. It includes sections discussing:

- Flight Training
- Career and salary information
- Ideas for bringing aviation into the classroom
- The basics of flight
- Useful aviation facts
- Resource and information guide

A Student's Guide to Aviation

Diagrams and information in this guide include:

- The main parts of an airplane
- "How is a plane controlled?"
- Instructions for making a simple airfoil
- "What makes an airplane fly?" *(the four forces of flight)*
- Definitions of airplane parts
- An airplane instrument panel
- An outline of ideas and list of activities

AOPA's ABC's of Aviation

This popular brochure is an "aviation-to-English" glossary of 78 common and often confusing aviation terms. For instance, it explains:

- General aviation *(all aviation except airlines and military)*
- Stalls *(no, the engine doesn't stop)*
- Commercial pilot (not an airline pilot)

The concise but detailed glossary helps translate aviation abbreviations and jargon, and is a useful teaching tool.

AOPA's Careers in Aviation

Listing almost 70 aviation-related careers, this one-page brochure provides information about:

- education requirements
- who employs
- future job outlook

AOPA's Aviation Fact Card

Updated annually, the Fact Card tells the story of aviation in numbers, and can be useful as a tool for math studies. Statistics are included about:

- Active Pilots
- Numbers of hours and passengers flown
- Transportation accidents
- Active civil aircraft
- Airports

AOPA PILOT Magazine for School Libraries

School libraries may subscribe to AOPA's award-winning monthly magazine. This full-color publication boasts stunning photography and expert columnists, and is popular with aviation enthusiasts of all ages. Articles cover:

- aircraft
- aviation news
- aviation law
- other general aviation-related topics
- weather
- pilots
- aviation products

AOPA Members as Expert Resources

Pilots are uniquely qualified to show young people that what they're studying today has applications in an exciting aspect of society—aviation. We encourage our more than 340,000 members across the United States to be expert resources, sharing activities and materials and providing a link between the education and aviation communities. Pilots use their experiences in aviation to spark interest in math, science, and almost any other subject.

AOPA provides pilots:

- guidelines about whom to contact in local school districts
- tips on topics to discuss
- classroom activity ideas
- suggestions for other ways to participate in aviation education in their hometowns

Fly a Teacher

AOPA thinks teachers should experience general aviation flight. We provide volunteer pilots guidelines for providing orientation flights for teachers and provide AOPA's First Flight Certificates. Through AOPA's "Fly A" programs, AOPA members provide orientation flights to people who otherwise might not get the chance to see what general aviation is all about.

AOPA's Additional Aviation Education Involvement

At AOPA, we are also interested and often involved in what's going on throughout the industry to support aviation education. This list explains our additional involvement:

- We signed a partnership agreement with FAA to promote "Aviation Education and Public Awareness."
- We provide information about our aviation education programs to the Federal Education Information Exchange (FEDIX). Any teacher with a personal computer and modem can learn what materials AOPA has available through the FAA Aviation Education Menu.
- AOPA and the AOPA Air Safety Foundation are members of the University Aviation Association.

A New Commitment

AOPA takes pride in renewing its efforts to enhance the aviation education of America's young people. Our resources are available at no cost to educators. Why? Because AOPA believes aviation is a valuable teaching tool which can motivate students while enlightening educators and parents about general aviation's positive contribution to American life.

Airports Council International — North America (ACI-NA)

ACI–NA Commissioners Roundtable Scholarship Program

The ACI–NA Commissioners Roundtable Scholarship provides financial support to students working towards a career in airport management or airport administration. The scholarship is awarded in an amount up to $2,500. Applications are reviewed by a panel from the University Aviation Association and 10 finalists are chosen. A recipient is selected from the 10 finalists by the ACI-NA Commissioners Roundtable Steering Group.

ACI–NA Conferences and Seminars

ACI–NA conferences and seminars facilitate face-to-face education and interaction, and provide a forum for the examination of aviation issues and the presentation of new ideas and products. Conferences and seminars also focus on the following areas: U.S. Governmental Affairs; Economic Affairs (including Commercial Management, Finance & Administration, International Airports Economics and Small Airports), Legal Affairs; Environmental Affairs; Technical Affairs; International Air Service; Marketing/Communications; and Aviation Education.

Educational/Tour Guide Conference

A bi-annual conference providing a forum for airports to share aviation education program experiences to foster the development of similar programs at airports across North America.

Airport Highlights

A bi-weekly newsletter spotlighting the latest airport news, regulatory and Congressional developments, domestic and international aviation news, industry issues and employment and business opportunities. Publication offered to students at a special rate of $125.00/yr.

Reports, Studies & Surveys

Aviation related reports, studies and surveys are available at special rates to students.

Handbooks

Various aviation related handbooks are available on a wide-range of subjects. *Airport Communications Handbook* offers section on planning and developing aviation education programs. Other handbooks available include: *Airport Contracting Procedures; Airport Environmental Management Handbook; Airport Marketing Handbook; Airport Economic Handbook;* and *Passenger Facility Charge (PFC) Information/Media Handbook.* Handbooks are available to students at special rates.

Women in Airport Management

ACI–NA publication excerpt, women airport executives highlight aviation issues and offer advice for those interested in pursuing airport management careers. Free

Airports — THE FACTS Brochure

Informative brochure highlights airports as economic generators with long-term community commitments and as well managed facilities. Individual brochure requests are free. Brochures available in lots of 50 for $7.95.

American Helicopter Society (AHS)

AHS—Educational Materials

Vertiflight

Bi-monthly publication of the AHS, a professional society, for the advancement of vertical flight technology and its useful application throughout the world.

Vertical Flight Foundation Scholarships

The foundation is a charitable trust that supports the scientific and educational activities of VTOL flight. Each year the VFF awards one or more scholarships, at a value of up to $2,000, to undergraduate or graduate students interested in pursuing engineering careers in the helicopter or vertical flight industry.

AHS Descriptor

Since 1943 the AHS has provided its members with a forum for the exchange of technical information, and has developed a full-service library that provides easy access and distribution of technical and non-technical information on the rotorcraft industry.

Flight (Fundamental Lessons in General Helicopter Technology)

Video tape, narrated by Cliff Robertson, that describes the history, development and future of the helicopter industry. This video tape accompanied by "teacher friendly" instructional materials will provide a 3- to 10-day unit of instruction at the middle or high school level. Many employment opportunities and basic preparation requirements are outlined in the FLIGHT presentation.

Video Tapes

- *American Helicopter* Society 40th Anniversary – Narrated by Ralph Alex, covers the history of the helicopter industry and the AHS – 10 min.
- *Spirit of Texas* – Record Setting Helicopter Flight Around the World by H. Ross Perot, Jr., – 10 min.
- *Indianapolis Downtown Heliport*, demonstrates the benefits of helicopter transportation and urban heliports and highlights the Indianapolis Downtown Heliport – 10 min.
- *A Big Lift*, an FAA tape that portrays the various uses of civil helicopters – 15 min.
- *Tiltroter and the Future*, tape traces the history and development of the XV3, XV-15 and the V-22, and the many potential uses of the Bell-Boeing tiltroter aircraft.
- *History of the Helicopter*, this Shell Oil film takes a historical look at the role of the helicopter – 22 min.

American Institute of Aeronautics and Astronautics (AIAA)

- The American Institute of Aeronautics and Astronautics (AIAA) is the largest professional technical society, principal voice, and information resource devoted to the progress of engineering and science in aviation and space.
- AIAA's mission is to advance the arts, sciences, and technology of aerospace, and to nurture and promote the professionalism of those engaged in these pursuits. AIAA seeks to meet the professional needs and interests of members, as well as to improve the public understanding of the profession and its contributions.
- AIAA has more the 35,000 professional members — engineers and scientists in the aerospace field — from all levels of industry, academia, and government. Its corporate members represent the leading aerospace companies worldwide.
- AIAA publishes *Aerospace America*, a monthly magazine 6 technical journals, 2 book series, a student journal, and a variety of other publications and proceedings. AIAA's Aeroplus Access abstracts aerospace literature from around the world for inclusion in *International Aerospace Abstracts*. Its online database, the Aerospace Database, has over 1.9 million bibliographic entries and is available both online and on CD Rom. Publications cited in the database are available from AIAA's document delivery service, Aeroplus Dispatch.
- AIAA has 66 Technical Committees that cover all aspects of aerospace. It sponsors dozens of technical meetings, conferences, management seminars, short courses, continuing-education courses, and exhibits each year in the United States and abroad. AIAA also has more than 30 committees dedicated to enhancing industry-wide efficiency through the development and implementation of aerospace standards.
- AIAA has a pro-active precollege and educator associate program. Each Educator Associate receives *One Small Step...*, an educational outreach source guide to help teachers educate school age children from grades K-12 in the science, mathematics and aerospace disciplines.
- AIAA conducts a vigorous public-policy program and frequently testifies before Congressional committees concerning the aerospace programs of DOD, NASA, the FAA, and other government agencies. The Institute strives to provide the government, the media, and the concerned public with an understanding of the importance of aerospace technology to the nation's future growth and well-being.

Aviation Distributors and Manufacturers Association (ADMA)

The Aviation Distributors and Manufacturers Association exists for the promotion of friendly business relations among its members, to promote the general welfare of the industry and to bring about the utmost efficiency and economy in connection with the distribution of the lines manufactured and distributed by the industry. Membership is comprised of nearly 100 international distributors and manufacturers of aviation parts, components and supplies.

ADMA is committed to furthering aviation education through the following activities:

- ADMA publishes the bimonthly *Aviation Education News Bulletin* for students and educators alike. This publication includes pertinent information on training and educational opportunities, scholarship resources, education tools and programs, etc.

- An aviation educator or institution is honored annually with the presentation of the Janice Dyer Aviation Education Award (formerly Stewart G. Potter Award) for outstanding achievement in the field of aviation education.

- The ADMA Scholarship Endowment Fund awards scholarships annually to students enrolled in a four-year college pursuing careers as pilots or in aviation management.

- ADMA publishes educational brochures including:

  Student Airport Tours
  Provides a checklist for both the educator and FBO to assist in arranging educational tours.

  Choose a Career in Aviation
  Assists students in selecting an aviation career goal and then pursuing specific classes to help them achieve that goal.

- ADMA's Aviation Education and Youth Committee has as its major goal to interest primary, secondary, technical school and college students in potential careers in aviation.

Civil Air Patrol

Civil Air Patrol's Purpose

Civil Air Patrol is an aviation-oriented, non-profit, volunteer organization with three missions: Emergency Services in search and rescue and disaster relief, the Cadet Program (leadership development and aviation-related activities for youth age 12 to 21), and the Aerospace Education Program. Founded in 1941, Civil Air Patrol transformed its wartime mission of coastal anti-sub patrol to a peacetime focus on community service and leadership development as the official Auxiliary of the United States Air Force. Civil Air Patrol's programs are supported by the aviation experience and resources of its members and of the Civil Air Patrol corporation.

Civil Air Patrol's External Aerospace Education Program

For the educational community, Civil Air Patrol's Aerospace Education program focuses on providing materials, networking, and informational resources that support an aviation-related curriculum in schools from kindergarten through twelfth grades. A major contribution is organizing and hosting the annual National Congress on Aviation and Space Education (NCASE, or "the Congress"), which attracts hundreds of workshops in colleges and universities across the country, reaching thousands of educators annually. Aerospace education material packets, posters, and activity booklets are available free of charge. Discounted aerospace education experiments, construction projects, and teaching aids are available from the Civil Air Patrol Supply Depot.

Civil Air Patrol's Internal Aerospace Education Program

For its members, CAP's Aerospace Education program for cadets and adults includes everything from *classes* about the history of aviation, the aerodynamics of flight, and the space program to *orientation rides* (for cadets) in single-engine aircraft, helicopters, and a variety of military aircraft. Summer "encampments" include *field trips* to Air Force, Army, and Navy bases, offering hands-on experience with flight simulators and up-close-and-personal encounters with *military aviation facilities and aircraft*.

In many states, the wing (the state-level organization) or individual squadrons (the local unit) sponsor competitions for *cadet flight scholarships* through solo and, in some cases, through the private pilot license.

Aerospace Education for adult members of Civil Air Patrol includes classes, workshops and conventions. Our adult members have the opportunity to teach—whether in the local unit, at schools and universities, at conventions, or beyond. They have also the opportunity to receive hands-on training as members of our *airborne search crews* (in pilot and non-pilot specialties), as well as classroom training in aviation-related and other subjects.

Other Benefits of Civil Air Patrol Membership

Members enjoy access to the educational resources of the United States Air Force Air University, through the USAF Extension Course Institute. The Air Force gives preferential treatment to cadets who have excelled in the Civil Air Patrol Cadet Program, including consideration for the Air Force Academy, and advanced pay grades when enlisting in the Air Force, Air National Guard, or Air Force Reserve. Finally, members may participate in the many other rewarding aspects of the Civil Air Patrol program.

For more information about Civil Air Patrol Aerospace Education resources, call the National Headquarters Aerospace Education Office at (334) 953-4252. For information about membership, call the Membership Development Office at (334) 953-4260. To locate a squadron near you, call 1-800-FLY-2338. To obtain free Aerospace Education materials or discount items from the Civil Air Patrol Supply Depot, call (334) 953-5095.

EAA Aviation Foundation, Inc. (EAA)

The EAA Aviation Foundation, Inc.

The EAA Aviation Foundation is dedicated to the discovery and fulfillment of individual potential through opportunities and challenges inspired by the dream of personal flight. Through its people-serving programs and activities, the Foundation shares the spirit, tradition and standards of the Experimental Aircraft Association. Its mission focuses upon EDUCATION, on the rich HERITAGE of man's quest for flight and on RESEARCH AND INNOVATIONS accomplished by individuals in aviation.

A commitment to excellence is easy to announce, but very difficult to maintain. It takes a shared vision to see a goal and hard work to reach it. True excellence, however, is measured by those who have maintained high levels of achievement year after year.

Established in 1962, the Foundation co-sponsors the annual EAA Fly-In Convention, operates the world-class EAA Air Adventure Museum, encourages innovative technologies to make flying possible for more people and maintains a renowned library collection of books, periodicals, photographs and archival materials.

In its commitment to education, the Foundation sponsors an expanding array of forums, workshops and hands-on activities for all ages. Those events provide the skills and knowledge valuable even beyond the world of aviation.

We need people like you to help us maintain and expand this commitment to excellence.

For more information on how you can support these programs for youth and the EAA Aviation Foundation, call the EAA Aviation Center at (414) 425-4800.

EAA Young Eagles

What would the world look like from the edge of a cloud? The sky is an endless wonder and the goal of the Young Eagles Program is to match a young person's fascination with skies with a pilot eager to share it. EAA members are dedicated to giving one million young people an airplane ride by the year 2003—the 100th anniversary of powered flight and 50th anniversary of EAA. The experience includes more than just a ride, however as pilots share the "whys" and "hows" of aviation and, more importantly, share the joy of flight. It's a chance for youth to meet a positive aviation role model.

Each Young Eagle receives a certificate presented by their pilot to commemorate the experience. The young person's name is entered in the "World's Largest Logbook" at the EAA Air Adventure Museum plus each receive a Young Eagles decal and two issues of Sport Aviation For Kids.

The Young Eagles Program seeks young people that will be the next generation of aviators. It encourages them to dream and strive to reach positive life goals. The experience motivates responsibility and safety in a unique and exciting setting.

Set a vision for the future. Find out more about the Young Eagles Program by calling the EAA Aviation Center at (414) 426-4800.

EAA Air Academy

The Air Academy is a summer aviation experience of a lifetime for youth ages 15–17.

- A chance to study aviation from every angle—the people, places and science of aviation.
- Held each summer at the EAA Aviation Center in Oshkosh, Wisconsin, the place where the world focuses on aviation.
- Held at various sites across the nation during the year.
- Master craftsmen and teachers emphasize sharing the skills and lore of aviation that culminates with activities at the EAA Fly-In Convention.

Adult Air Academy

The Adult Air Academy is an intense week-long program that opens the world of aviation for adult enthusiasts.

- The adult Air Academy gives opportunities for enthusiasts to share their interest and learn hands-on aviation skills from instructors who are among the finest in the world.
- Adults may choose from a general overview of aviation topics or concentrate on specific skills.

EAA Scholarship Program

Encouraging, recognizing, and supporting students in pursuit of an aviation career is the goal of EAA and award sponsors.

- The EAA Aviation Foundation awards thousands of dollars in grants every year, ranging from two hundred dollars to full degree programs.
- Recipients are students demonstrating a financial need to accomplish their goals in the field of aviation.
- The Foundation looks to encourage students who are studying the technologies and skills of aviation, seeking to become tomorrow's aviation leaders.

EAA Project Schoolflight

This program has helped young people explore aviation for more than 35 years by building an actual aircraft in their own schools or youth organization.

- It includes the basics of aircraft design and construction for enthusiasts in high schools and technical schools throughout North America.
- The program not only teaches aviation, but also skills, an appreciation for workmanship and high standards of quality applicable to more than aviation.
- Inexpensive pedal-plan kit and simple VFR flight simulator plans are available to elementary and middle schools.

EAA Fly-in Convention

Held at Wittman Regional Airport in Oshkosh, Wisconsin, the Convention is one of the world's largest and most comprehensive aviation events.

- More than 500 forums and workshops are presented to teach amateurs and professionals more about the latest in aviation.
- Top airplane experts and builders share their years of knowledge with enthusiasts.
- The latest aircraft innovations and designs are on display explained by the people behind the ideas!

EAA Videos

From starting to build an airplane to learning how to fly loops and rolls, EAA's ever-expanding roster of videos can help.

- Aviation experts offer their expertise, opening a world of aviation knowledge.
- The videos show the right places to find help to advance in aviation knowledge and experience.
- Discover the priceless heritage of aviation through historical videos produced by EAA.

EAA Membership For Kids And Young Adults

Young people have many ways to get involved in EAA's world of aviation. The newest way is the EAA Sport Aviation Club...a great club for young people aged 8–14 that introduces them to the world of aviation. For $15 a year, kids receive *Sport Aviation for Kids*, a colorful new magazine with awesome photos, super games and exciting stories about airplanes and the people who love flying them. Club members also receive a Sport Aviation Club membership card, iron-on patch and club logo sticker. If you've always wondered how airplanes fly and who flies them, here's a great way to find out:

Young adults through age 18 can be an EAA youth member. For $20 a year, member receive their own EAA membership card, 12 issues of *Sport Aviation* magazine and the special benefits that all adult EAA members enjoy. They are also eligible to participate in special youth forums and other activities at the annual Fly-In Convention in Oshkosh, Wisconsin, the EAA insurance programs and activities with local EAA chapters. It's a great way for young people to discover more about the freedom of flight.

EAA Publications

Each of EAA's six publications contains valuable insights into aviation along with the people who fly.

- EAA's flagship publication, *Sport Aviation*, provides a look at the entire spectrum of recreational aviation.
- *The Experimenter* is published for light plane and ultralight enthusiasts, as well as people building their own airplanes.
- *Vintage Airplane*, Warbirds and Sport Aerobatics have great appeal for enthusiasts of these specialized areas of sport aviation.
- The new *Sport Aviation for Kids* gives young people an exciting first look at the possibilities in the world of aviation.

General Aviation Manufacturers Association (GAMA)

Aviation Education Activities

GAMA is proud to be a part of the National Coalition for Aviation Education. We invite each of you, as educators, to continue your guidance in providing the educational motivation needed to entice our children to learn. Aviation education is a motivator that increases learning skills and provides opportunities for young people to apply their knowledge in achieving life-long career goals in aviation or other chosen fields.

GAMA Participation

National Congress on Aviation and Space Education Conference. GAMA participates in the conference seminars and distributes thousands of materials to nearly 1,000 teachers from across the country. At each Congress, GAMA holds an aviation education idea contest for the participants and announces the "Excellence in Aviation Education" Award Winners.

National Intercollegiate Flying Association SAFECON (Safety Evaluation Conference). GAMA provides materials and information to participating students from more than 25 colleges and universities across the country. Each year GAMA sponsors the Dr. Harold S. Wood Award for Excellence which is awarded to the top aviation student in the country.

Annual International Women in Aviation Conference. Each year, GAMA sponsors the 2,000 attendee conference founded and directed by Dr. Peggy Baty. The conference goals are to offer women an opportunity to learn about their aviation heritage, to encourage more women to enter into aviation careers and to provide a networking environment for women in the field of aviation.

GAMA Awards Offered

GAMA "Excellence in Aviation Education Award." This annual award is presented to primary and secondary school teachers, who bring aviation into the classroom. Awards are given to three educators in each of four grade groups: Kindergarten through 3rd grade, 4th through 6th grade, 7th through 9th grade, and 10th through 12th grade. Applications are available from GAMA's Aviation Education Office. The award winners will be recognized at the National Congress and Space Education Conference. Each award recipient will receive an award certificate, a logbook and a free discovery flight in a general aviation aircraft.

GAMA Dr. Harold S. Wood Award for Excellence. The GAMA award recognizes the most outstanding collegiate aviation scholar in the nation. It is named in honor of NIFA executive director emeritus Dr. Harold S. Wood who is internationally known for his dedication to the enhancement of aviation education. Students

interested in submitting an entry should contact GAMA's Aviation Education office. The scholarship is open to students enrolled in NIFA participating colleges and universities.

GAMA Materials

Learn to Fly. (Brochure) A brief synopsis of the levels of pilot certificates, the training required, answers to questions on becoming a pilot, and illustrated basics of flight. 25 copies are free for educators.

Activities and Resources to Use in General Aviation Teaching Units. Developed to assist educators in any level of teaching to construct a teaching unit offering the students knowledge of general aviation's history and its modern application. *(Free)*

GAMA Aviation Education Report — Your Career in General Aviation. Emphasizes general aviation while describing the wide variety of job opportunities available in the aviation community. Provides students with a brief description of the type of education or experience necessary for various industry jobs. Lists twelve different organizations offering specific aviation career information. *(Free — Available in quantities)*

Take Off For Opportunities. This 11–minute VHS video provides information on future opportunities for young people in aeronautical aerospace engineering, maintenance and avionics repair. *(Available on a 30-day loan)*

Making the Difference. Documentation of six true stories of general aviation in common and critical situations. Shows general aviation at work in the sky in such commercial uses as photography, agriculture, air ambulance, flight training, and business and corporate flying. 14 minute VHS video. *(Available on a 30–day loan)*

General Aviation Statistics/GAMA Industry Review. Statistics on U.S. general aviation shipments, aircraft fleet, international trade, safety and the most current data on airport statistics, pilot population, and the top GAMA issues for the year.

Business Aviation Information. Brochures, videos, statistics developed for the NBAA/GAMA Business Aviation Advocacy Program "No Plane, No Gain." The program promotes business aviation as a cost-effective tool for increasing the efficiency, productivity, and profitability of companies. Materials are available from GAMA or by calling (800) 9AVIATE.

For your free copy of the GAMA aviation education materials, write to: GAMA Aviation Education, 1400 K Street, NW, Suite 801, Washington, DC 20005.

4-H Aerospace Education Programs

4-H Youth Development programs impact on more than five million young people throughout the country in a variety of educational efforts. 4-H is supported through the Cooperative Extension System which is a country, state and federal partnership for education based in the Land Grant University System. The Federal partner is the U.S. Department of Agriculture through CSREES. The Cooperative Extension system provides a linkage for education to every county in the United States and its Territories.

4-H Aerospace Education is affiliated with and operates through the National Network for Science and Technology (NNST), a part of the Cooperative Extension System, USDA/CSREES. In 1994, a strategic plan entitled, "Partnerships for Aerospace Education and Workforce Preparation," was developed for 4-H Aerospace Education with a vision and mission described as follows.

Vision

Aerospace-related industries, public institutions and non-profit organizations cooperatively create and provide learning experiences that engage young people in the development of skills needed for an increasingly technical workplace. Collaborative efforts in aerospace education provide the following for our youth:

- Excitement, inspiration and motivation to improve skills in math, science and technology affecting academic performance, course selections and career choices.
- Development of technical workplace competencies relating to resources, systems, technology, utilization of information, and a positive work ethic or commitment to excellence.
- Improvement in the ability to learn, to reason, to think creatively, to make decisions, take initiatives, solve problems, and to work effectively in teams.
- Enhancement of personal qualities, interpersonal relationships, communication skills and development of related skills needed in all areas of life.
- Involvement in community aerospace education efforts.

Mission

Many opportunities exist which provide youth with aerospace education. However, there are ways to improve and expand the impact of aerospace education programs and to develop new opportunities for youth and society. Opportunities exist to:

- Improve and assure ease of accessibility of communities to existing aerospace education resources and programs.
- Provide training opportunities for families, educators, youth organization staff and volunteers in aerospace education.
- Increase and expand awareness of career opportunities incorporating workforce competencies in educational efforts.

Although more than 200,000 young people already participate in 4-H aerospace education programs across the country, 4-H can impact many more youth through partnerships with the aerospace community.

Accomplishments of 4-H Aerospace Education Programs include:

- Partnerships developed with new and existing programs in aerospace (examples: over 5 years, 6 thousand 4-H young people and adults from more than 40 states attended Space Camp)
- SKYLIGHTS Newsletter is distributed nationally to many county and state extension staff, volunteer leaders, teachers, parents, and other organizations.
- The current development of a National 4-H Aerospace Curriculum produced and coordinated by the Cooperative Extension System collaborating with the education and aerospace communities.

Current goals of 4-H Aerospace Education Programs include:

- To increase and expand the facilitation of new and existing programs through the development of partnerships. (Example: Distribution of NCAE Member Organization resources through a collaborative effort.)
- A nationally distributed SKYLIGHTS for young people as well as the version for adults, available through subscription.
- Resource material distribution and educational training programs for the 4-H National Aerospace Curriculum Projects, ready by the fall of 1997.

SKYLIGHTS

Highlights of aerospace educational resources addressing current needs in aerospace education. Available in print form and electronically. SKYLIGHTS includes stories about young people and adults regarding their activities and successes in aerospace; introduction of programs, curriculum, and materials. Community involvement efforts are highlighted and articles about achievements, scholarships, apprentices, etc. are shared. Youth and adults are directed toward local contacts.

National 4-H Aerospace Curriculum

Fascination of flying an airplane, launching a rocket, exploring space and becoming an astronaut or pilot will come alive for youth through youth activity guides (K-12), group and leader guides. Designed to stimulate interest and enthusiasm for limitless opportunities through fun, challenging, learn-by-doing activities, youth will learn about airplanes, kites, hot air balloons, remote controls, gliders, space shuttles, helicopters and more, along with workforce competencies and other life skills.

4-H hopes to establish working relationships with member organizations of the NCAE to reach common goals of helping to educate youth about aviation and space.

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Helicopter Association International (HAI)

1992 Helicopter Annual

A comprehensive reference guide for the civil helicopter industry. The Helicopter Annual includes helicopter specifications, industry statistics, HAI membership directories by class and geographical matrix, listings of international civil aviation contacts, key FAA regional & headquarters contacts, aviation periodicals, association committees, and more. Price: First copy free to HAI members, additional copies $20; $40 to non-members. Shipping and handling $3 within the US; $5 International. (order #101)

Rotor Magazine

A quarterly magazine dedicated exclusively to the civil helicopter industry, ROTOR contains news and features on the civil helicopter industry. It covers pertinent helicopter operational, safety and regulatory issues, including an FAA Administrator's question & answer column, legislative and lobbying issues, and HAI committee and member activities. Price: Subscription to ROTOR is included in membership dues. Within the US, non-member subscriptions are $15 per year, or $25 for a two-year subscription. Outside the US, $25 per year, or $42 for a two-year subscription. Shipping & handling charges included. (order 4102)

***Flight** (Fundamental Lessons in General Helicopter Technology)*

Video tape, narrated by Cliff Robertson, that describes the history, development and future of the helicopter industry. This video tape accompanied by "teacher friendly" instructional materials will provide a 3- to 10-day unit of instruction at the middle or high school level. Many employment opportunities and basic preparation requirements are outlined in the FLIGHT presentation.

HeliHound Program

The HeliHound Program is aimed at achieving aviation awareness among children enrolled in kindergarten through early elementary school grades. This booklet can provide educators with a unique and interesting curriculum to expose children to the world of vertical flight. The use of the HeliHound character combined with the program curriculum will fascinate and inspire children, while opening the door to opportunities they might otherwise overlook.

Fly Neighborly Guide, Pocket Guide & Decal

An outline of HAI's Fly Neighborly Program, a voluntary sound-reduction program designed to integrate helicopter operations into the community, this guide actively addresses noise abatement and public acceptance of the helicopter as well as serving as an important pilot training tool. HAI is pleased to distribute single copies of the Fly Neighborly Guide free-of-charge as an industry service. Shipping & handling $2 within the US; $4 International. (order #108)

Helicopter Users' Guide

An information booklet designed to answer the questions most commonly asked by those employing helicopter services for the first time. Developed by HAI's Safety Committee, the Helicopter Users' Guide provides basics on helicopter aerodynamics, helicopter maintenance, factors affecting performance and safety guidance for passengers and support personnel to ensure a safe and efficient flight. Price: HAI members $1 each; non-members $2 each. For 100 copies, $50 to members; non-members $75. Shipping & handling for 100 copies, $2 US; $15 International. Price may change. (order #109)

Heliport Directory

A Heliport Directory serving the helicopter industry, this publication includes 400 pages of EMS and State Heliports in the United States, Virgin Islands and Puerto Rico. The information contains a full location of all heliports including latitude and longitude, public use/private use designation, attended/unattended information and whether the facility is lighted or not. The directory is conveniently encased in a three-ring binder. The listings are updated each year. (1990, 400 pages) Price: Members: $35; Non-members: $50 Refills/updates: $25. (order #111)

Holding Onto Revenue

This 16 page guide was developed by HAI's Economics Committee to help operators recognize basic business skills required for successful commercial helicopter operations. Price: HAI Member $5; Non-member $8. (order #112)

HAI Publications

Interim Guidance For Conducting In-depth (Part 135) Inspections

This document is FAA's National Aviation Inspection Program Guidance to Field Offices (FSCOs). Price: HAI members $10; non-members $15. Shipping & handling is included in the price. (order #113)

Guide For The Presentation Of Helicopter Operation Cost Estimates

A comptehensive, standardized guide to airframe and engine manufacturer operating cost estimates to assist helicopter operators to project, track and record direct and indirect operating expenses. Published by Aerospace Industries Association of America in cooperation with HAI. (1987, 36 pgs.) Price: $7.00. (order #114)

Helicopter Safety Reference Guide

The Helicopter Safety Reference Guide, 160 pgs., is sold separately: $20 for members; $30 non-members, while supplies last. Shipping & handling $3 within the US; $5 international. (order #116)

Technical Reports and Papers

FAA Helicopter Abstracts and Bibliography

This publication contains executive summaries, or abstracts, from technical reports and documents on operations completed by the FAA in the last 25 years. It provides an excellent background for people and companies interested in a quick review of advancements in helicopter technology. (1986, 105 pgs.) Price : HAI members $15; non-members $25. Shipping & handling $3 within the US; $5 International. (order #118)

Community Rotorcraft Transportation Benefits & Opportunities

A comprehensive report to assist planners in assessing and planning for the use of rotorcraft transportation in their communities, it also provides information based on the proceedings of the Monterey Conference on Rotocraft and Commuter Transportation, helicopter research, economic opportunities and benefits. Published in coordination with NASA and the American Planning Association. (180 pgs.) Price : HAI members $10; non-members $25. Shipping & handling $3 within the US; $5 International. (order #119)

International Association of Machinists and Aerospace Workers (IAM)

The International Association of Machinists and Aerospace Workers (IAM) represents more than 100,000 airline workers at more than 70 U.S. and foreign flag carriers and airline service companies. The majority of those members work in the mechanic and related, fleet and ground service, passenger and reservation agent, flight attendant and office and clerical classifications.

The IAM maintains a training center at Placid Harbor, MD where it conducts leadership training for IAM members and full-time staff. IAM leaders and future leaders attend classes in Collective Bargaining, Arbitration, Newsletter Editing, Leadership I, II, and II, Train the Trainer, and seminars on a host of other topics.

The IAM has established a Permanent FAA Committee which is a member of, and takes an active role in the Federal Aviation Administration's Aviation Rule Making Committee (ARAC). It also advises and represents IAM Airframe and Powerplant (A&P) mechanics on matters before the FAA.

IAM Flight Safety Committee's keep IAM mechanics abreast of current FAA matters and assists the National Transportation Safety Board in airline accident investigations.

The IAM has been negotiating airline contracts for me than 55 years. IAM members enjoy some of the best wages, benefits, job security and working conditions of workers in any industry.

The IAM offers a number of scholarships to its members on a local, district and national level. Through the National Coalition for Aviation Education the IAM offers guidance to anyone interested in a career in the airline industry.

International Society of Aviation Maintenance Professionals (ISAMP)

The International Society of Aviation Maintenance Professionals (ISAMP), is the first voluntary professional standards and ethics organization representing aviation maintenance professionals.

The purpose of this organization is to develop and maintain high ethical and performance standards for all members of the aviation maintenance profession. Membership in ISAMP is strictly voluntary and is open to all mechanics and technicians world-wide. Its goals are to:

- Promote and maintain a high set of ethical and performance standards.
- Unite Aviation Maintenance Professionals under one approved certification process.
- Enhance and encourage professionalism in the aviation maintenance industry and promote this image to the general public.
- Encourage excellence in Aviation Maintenance education.
- Encourage mutually beneficial communications and relations between Aviation Maintenance Professionals world-wide.

The right to use the International Society of Aviation Maintenance Professionals certification, once it has been granted, is predicated on the individual meeting the continuing obligations established by ISAMP. The obligations include:

- *Continuing Education* — To keep their certification in good standing, the member must participate in at least 20 hours of continuing education annually and provide documentation of this activity to ISAMP.
- *Standards of Ethical Conduct* — To keep their certification in good standing, the member must comply with the Standards of Ethical Conduct issued by ISAMP.

ISAMP offers guidance to anyone interested in aviation maintenance as a career and will provide materials and information for anyone needing further information.

National Aeronautic Association (NAA)

The National Aeronautic Association's aviation education programs primarily support the affiliated sport and other organizations.

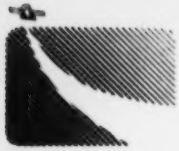
The NAA is the designated United States member organization in the Fédération Aéronautique Internationale and has an active role in the FAI Education Committee.

NAA in cooperation with the FAA and NASAO sponsors the U.S. participation in the annual young people's International Aviation Art Contest.

NAA is the custodian and administrator for the national Frank G. Brewer Trophy which is awarded annually for the outstanding contribution to aviation/space education.

NAA conducts a semi-annual awards activity to recognize aviation records and other accomplishments including the aviation education field.

It is hoped that NAA will be able to expand its aviation education activities, but the focus will continue to be in a supportive mode and especially encourage research in aviation education.



National Agricultural Aviation Association (NAAA)

The NAAA is a national association of agricultural aviators who use aircraft to enhance this nation's food and fiber production, protect our forest resources, and control health limiting pests. The purpose of NAAA is to coordinate and generally direct the efforts of the agricultural aviation industry on a national basis. Organized in 1967, the NAAA represents over 1,200 members.

NAAA Activities

Annual Convention & Trade Show

This convention provides a national program to address aviation and issues affecting the aerial application of pesticides.

Education Programs

A. Operation S.A.F.E. —The Self-regulated Application and Flight Efficiency program was organized to determine the exact spray pattern of a specific configuration of application equipment on a plane. It is designed to improve the professionalism and performance of the industry.

B. Classroom Curriculum — Under the guidance of the Women's National Agricultural Aviation Association (WNAAA), the program is directed toward increasing the knowledge of elementary and secondary students regarding aviation and the use of aircraft in food and fiber production. Teacher curriculum guides and classroom materials are provided.

C. Video Library

1. *The Aerial Applicators Growing Role in the Production of Safe Food* depicts the use of aircraft in food production.
2. *Agriculture's Air Force* describes the use of aircraft in aerial application and other uses benefiting agriculture and forestry.
3. *Emergency Response to Pesticide Spill Accidents* is a video for emergency rescue training to facilitate the rescue of a pilot from a downed agricultural aircraft.

The National Agricultural Aviation Research and Education Foundation

NAAREF, founded in 1982, fosters research regarding aerial application technology and promotes education regarding the use of aircraft in agriculture.

Publications

Agricultural Aviation is a magazine dedicated to the agricultural aviation industry. Ten issues are published annually with industry-wide dissemination.

NAAA Newsletter is a monthly newsletter for members, providing an update of legislative and regulatory issues.

National Air Transportation Association (NATA)

Learn to Fly (LTF)

Mission

To promote and expand the market for general aviation products and services by increasing the number of new student pilot starts and by reactivating existing pilots. LTF's promotional message focuses on the adventure and challenge of learning to fly, and the practicality of using general aviation. LTF uses its resources to promote directly to the potential pilot, provide interested prospects access to information on how to go about learning to fly, and assist our members in capturing and retaining prospective students.

LTF is a non profit organization operating on behalf of the general aviation industry to foster overall growth and improve the sales and marketing skills of flight training service providers.

Learn to Fly Objectives

- Stimulate interest in learning to fly among educated people with discretionary income with messages that will make them aware of the adventure of flying and the practicality of aviation.
- Provide interested prospects with fast and easy access to information on how to go about learning to fly.
- Assist LTF members in capturing and retaining prospective students.

To accomplish these objectives, we offer LTF members a very practical plan:

- Continuation of the 1 800 I CAN FLY telephone program that receives calls from prospective student pilots nationwide. Each caller receives an information packet on learning to fly, the benefits of general aviation, and a listing of local flight schools.
- Distribution of the name, address, phone number and age of the prospective student pilot to LTF members (or TeamMates).
- Development of a national advertising campaign supported on a pro-bono basis by industry trade publications—gradually moving into more targeted publications.
- Low-cost, regional sales & marketing workshops aimed at flight training providers.
- Supply TeamMates with marketing/promotional materials.

National Air Transportation Foundation (NATF)

NATF was founded to meet the charitable, scientific, and educational needs of the aviation service industry. In 1989, NATF established the Pioneers of Flight Scholarship Program to offer financial assistance and encouragement to young people in the pursuit of academic excellence. By making scholarship grants available, NATF's ultimate goals is to foster and promote careers in the aviation service industry.

The Pioneers of Flight Scholarship

Up to four grants of $2,500 will be awarded to those who:

- are nominated by an NATA Regular or Associate Member company.
- are college students in the sophomore or junior year at the time of application intending to pursue full-time study at an accredited four-year college or university.
- demonstrate an interest in pursuing á career in general aviation.

The John E. Godwin, Jr., Memorial Scholarship Fund

The Godwin Fund scholarship award is $2,500 and is to be used for flight training for any certificate and/or flight rating issued by the FAA, at any NATA Member company offering flight training. Eligible applicants must:

- be in active pursuit of training for their license and/or rating.
- must accumulate a minimum of fifteen (15) dual or solo flight hours each calendar month.
- must receive a log book endorsement from the Chief Flight Instructor certifying satisfactory achievement for each training stage check.

For more information on NATA's Learn to Fly Program or NATF's Scholarship Program, call Ann W. Devers at (808) 808-NATA.

National Aircraft Resale Association (NARA)

The National Aircraft Resale Association's goals are to:

- Promote industry recognition for the reputable aircraft brokers and dealers in the previously owned market.
- Create industry standards for the resale of pre-owned business aircraft.
- Enhance professional development and education through NARA sponsored seminars.
- Provide legislative and regulatory representation for the industry.

Member testimonials tell the story firsthand...

"NARA provides a forum for an exchange of industry information with our contemporaries that we would not have enjoyed otherwise. Through the Associate Membership, it increases our access to industry services."

– ***JB & A Aviation***

"Eagle Aviation, Inc. joined the National Aircraft Resale Association because we wanted to associate ourselves with an organization that espoused high ethical standards and practices for its members. Eagle likes the idea of promoting and supporting an environment which solicits a free exchange of marketing ideas to generally enhance the growth of general aviation and the image of aircraft sales organizations."

– ***Eagle Aviation, Inc.***

National Association of State Aviation Officials

and the

Center for Aviation Research and Education

National Association of State Aviation Officials (NASAO)

On September 1-2, 1931, sixteen states met in Cleveland, Ohio, for a two-day conference on problems of state regulation of aeronautics. NASAO was established at this meeting. In April 1948, NASAO opened an executive office in Washington, D.C. to enable its members to maintain close contact with aviation's development not only among government agencies, but also among similar offices maintained by other aviation groups in Washington. Today, NASAO represents the state government aviation service agencies in all 50 states, as well as the aviation departments of Puerto Rico and Guam. Affiliate members include several Canadian Provinces and Territories.

In 1987, the Center for Aviation Research and Education was formed to serve the developmental needs of the nation and the states in the areas of aviation education and research. As with local, regional and federal governments and the private sector, the states play an integral role in the national air transportation system. The state provides aviation programs and services by planning, developing and providing funding for airports, navigational aids, air service needs, aviation weather systems, safety programs and efficient airspace use. The Center coordinates a multitude of state aviation services and programs.

Aviation is an excellent tool that educators can use to help their students reach their full academic potential. The major aviation education programs of the **NASAO/CENTER** include the following:

National Aviation Education (AVED) Network

Regional aviation education councils have been developed to enhance the outreach goals of aviation education. Coordinators from each state meet periodically within their respective regions to discuss current programs and recommend goals and objectives to be considered for regional and national implementation.

International Aviation Art Contest

The International Aviation Art Contest, an event of the Fédération Aéronautique Internationale (FAI), is co-sponsored by NASAO/CENTER, the National Aeronautics Association (NAA) and the Federal Aviation Administration (FAA). The art contest encourages youth, aged 6-17, from all over the world to reflect on aviation by having them illustrate a different aviation theme each year.

Project Air Bear Educational Programs

Project Air Bear is an aviation education program for kindergarten through third-grade level children. It turns the classroom into an airplane on a simulated flight to Disney World. A national "Air Bear" mascot costume is available

for those who wish to use it as the children learn about aviation. Project Air Bear is co-sponsored by the NASAO/CENTER, the FAA, the Ninety-Nines and the Illinois Division of Aeronautics.

National Career Education Academy

The Aviation Career Education (ACE) Academy is a one-week summer program designed to stimulate young people to explore the world of aviation. When students have completed the ACE Academy, they should be knowledgeable in how important aviation is to the world, how aviation grew to what it is today, and the future developments and career opportunities. Nearly every state hosts at least one Academy each summer. It is co-sponsored by the state aviation agency, the FAA, and in several states, the State Space Grant Consortium is an active partner.

Aviation Education Week

The NASAO/CENTER continues to encourage states to have their own governors sign a proclamation declaring an Aviation Education Week. At least 23 states have an aviation education week, most use the first full week in October, starting with a Sunday. During this week, the states host various activities to emphasize aviation in the schools. Some, in addition to the governor signing the proclamation, include: hosting career aviation day at local airports, coordinating Young Eagle Flights, encouraging schools to take field trips to their local airport, co-sponsoring aerospace workshops for educators and aerospace presentations at schools.

This list is a sample of the programs offered by your state aeronautics office. For more information on the activities in your area, you are invited to call your state aeronautics office. You can look up the number in the state agency listings or call the NASAO/CENTER Aviation Education Representative in your region.

Region 1	Ms. Jeanne Lisnik, Montana (406) 444-2506
Region 2	Mr. Troy Allen, Indiana (317) 232-1494
Region 3	Mr. Neal Vernon, Nebraska (402) 471-2371
Region 4	Ms. Betty Wilson, Virginia (804) 236-3624
Region 5	Mr. Doug Teel, New Hampshire (603) 271-2551
Region 6	Ms. Teresa Ishikawa, California (916) 322-9942
Region 7	vacant
Region 8	Mr. Mike Wright, North Carolina (919) 840-0112

NASAO REGIONS

BEST COPY AVAILABLE

National Aviation Exploring Committee

The National Aviation Exploring Committee is a group of aviation industry leaders who advise the Boy Scouts of America's Aviation Exploring program.

Exploring is the branch of the Boy Scouts of America for young women and men ages 14 through 20. Exploring is divided into different groups by career interest, such as aviation. Aviation Exploring focuses on exposing youth to careers in aviation.

Aviation Exploring Posts can be sponsored by aircraft maintenance facilities, aircraft manufacturers, airlines, avionics shops, Civil Air Patrol Squadrons, corporate flight departments, Experimental Aircraft Association Chapters, FAA control towers, FBO's, flight training schools, soaring clubs or any other aviation organization.

For information on how to start your own Aviation Exploring Post, contact:

Bill Evans
Associate Director of Exploring
Boy Scouts of America
P.O. Box 152079
Irving, TX 75015
(214) 580-2427 / Fax: (214) 580-7894

National Business Aircraft Association (NBAA)

NBAA has a long history of active participation in aviation education through involvement with such organizations as the University Aviation Association (UAA), the National Intercollegiate Flying Association (NIFA) and the FAA.

NBAA staff have served as members of the **UAA Board of Trustees**. In addition, each year UAA hosts its fall meeting in conjunction with the NBAA Annual Meeting & Convention. Each year, NBAA and UAA host an **aviation student seminar** at the Annual Meeting & Convention where industry and government officials give students an insight into the industry and job opportunities.

The Association also sponsors an annual scholarship program which provides five $1,000 scholarships to students studying aviation-related curricula at colleges which are UAA and NBAA members. Applicants must be a college sophomore, junior or senior continuing in school the following year, and must submit a brief essay describing their interest in an aviation career. These scholarships are awarded each Spring.

At the annual NIFA SAFECON (Safety Conference), NBAA sponsors the Flying Events Team Champions trophy for the flight team scoring the greatest number of points in the flying events categories.

NBAA is also a sponsor of the annual **Women in Aviation Conference** and a sponsor of the FAA's **Special Awards Program** for the International Science and Engineering Fair. As well, NBAA staff serve on the selection committee for the national **Brewer Aviation Education Award** presented each year by the National Aeronautics Association at the National Congress on Aviation and Space Education. The Association is a sponsor of the **Aero Club of Washington/National Air and Space Museum Summer Jobs Program** and supports the aviation education efforts of the Aero Club of Washington.

NBAA Materials

NBAA Business Aviation Fact Book

The NBAA Business Aviation Fact Book is a compilation of statistics directly related to business aviation gathered from NBAA surveys, the FAA and other outside data sources. Available free upon request.

Careers in Business Aviation

Profiles six people in business aviation careers including pilot, maintenance technician, scheduler/dispatcher, aviation department manager, flight attendant and line personnel.

"Business Aviation...America's Business Advantage for the 90's and Beyond"

This twelve minute video presentation shows the varied benefits of business aviation. The economic and time-saving advantages are discussed, with statistics given to emphasize the "edge" that business aviation provides. This VHS video is suitable for civic, community, student and other groups with an interest in business aviation. $9.95 each.

The Ninety-Nines
The International Organization of Women Pilots

History and Organization

Ninety-Nines, Inc., The International Organization of Women Pilots, was founded on November 2, 1929 at Curtiss Field, Valley Stream, Long Island with 99 charter members, hence the name Ninety-Nines. Amelia Earhart was the first president. Today there are nearly 7,000 members, dedicated to educational, charitable and/or scientific activities and purposes and particularly concerned with promoting an interest and love of aviation among women. Virtually all women of achievement in aviation have been or are presently members of The Ninety-Nines.

There are, currently, 21 Sections in the organization, comprised of 193 Chapters that serve local geographic areas. In addition to the aerospace education programs, the chapters participate in a variety of aviation safety activities which support the Federal Aviation Administration, including aviation safety seminars, airport tours, fear-of-flying clinics, and AOPA Pinchhitter® courses.

Activities

Each year, the organization inventories aerospace education activities, which range from sponsoring teacher workshops, attending career day activities, conducting field trips and Air Bear courses, to participating in Boy and Girl Scout flight instruction programs. Ninety-Nines also participate annually in the National Congress on Aviation and Space Education (NCASE) and at the conclusion of the week-long conference, award the sterling silver Amelia Earhart Medal to a leader in Aerospace Education. The 1996 Medal was awarded to Richard N. Holbert of the Little Rock (AR) Aerospace Education Center for his efforts in establishing and realizing the Center's goals. Previous years' Medals were awarded to aerospace education leaders in California and Virginia.

The Ninety-Nines also engage in many philanthropic endeavors, including Corporate Angels (transport for cancer patients and their families), airmarking, and the transport of medical supplies from the United States to many foreign countries through a number of charities.

The organization has also supported the National Intercollegiate Flying Association (NIFA) since 1948, through financial contributions and by performing as judges and field personnel. To promote the upgrading of pilot skills and proficiency, the Sections and Chapters sponsor a number of racing and cross-country flying events, the most famous of which is the Powder Puff Derby.

Publications and Meetings

The Ninety-Nine News is published bimonthly and contains feature articles and information on 99's activities. It is included with membership dues. *The Membership Directory*, published annually, is also included with membership dues.

Each of the chapters generally prints a newsletter, containing chapter news and a calendar of events. The section newsletters, published after sectional meetings, summarize section and chapter business activities.

The organization holds an International Convention each year. The 1997 location will be Portland, Maine. Alaska, Nova Scotia, Hawaii, Virginia, Maryland, New York, Oklahoma, and Idaho have hosted some of the past international conventions.

Local 99 chapters hold monthly meetings to plan and conduct flying and educational activities. Chapters support aviation in their communities by attending, sponsoring, and participating in airport open houses and fly-ins, safety programs, and aviation history events. Sectional meetings are held twice yearly by each section, enabling the chapters within a section to socialize and conduct business for the organization.

Ninety-Nines, Inc. On-line

The organization maintains on-line capability through CompuServe and provides information about the organization and members' activities as well as a listing of jobs and networking opportunities. The address is: http://www.ninety-nines.org.

Scholarships/Awards/Grants

The Ninety-Nines, Inc. present the *Amelia Earhart Memorial Scholarship Award* to qualified members of the organization for advanced flight training or courses in specialized branches of aviation.

An *Amelia Earhart Research Scholar Grant* is awarded periodically to a highly specialized professional scholar for work in her field of expertise to expand knowledge about women in aviation and space.

The Ninety-Nines Award of Merit recognizes individuals who have made a significant contribution to aviation, aviation education, science, aviation history, or to The Ninety-Nines, Inc.

The Katharine B. Wright Memorial Trophy was established in 1981 to honor the sister of Wilbur and Orville Wright. It is awarded by the National Aeronautic Association (NAA) and The Ninety-Nines to a woman who has made a personal contribution to the advancement of aviation and space flight over an extended period of time.

The Ninety-Nines, Inc. has received the *National Aviation Hall of Fame Spirit of Flight Award* and enshrinement into the National Aviation Hall of Fame for "outstanding contributions to progress in aviation and space."

The Ninety-Nines Headquarters

Headquarters for the Ninety-Nines, Inc. is in Oklahoma City, OK. The building, erected in 1975, is a recognized repository for resource material on women in aviation and aerospace. Archives, personal memorabilia, oral histories, art, films, photographs, and biographical files are housed in the facility, where, in 1988, it was expanded to twice the original size to accommodate the information that was donated and acquired. Over 600 volumes reside in the research library, where writers, playwrights, historians, and curators visit to locate material available nowhere else. The library and museum areas continue to grow as more materials are being given to Headquarters.

Additional information on The Ninety-Nines, Inc. for the nearest chapter or section may be obtained by writing to: The Ninety-Nines, Inc. International Headquarters, Box 695, 7100 Terminal Drive, Oklahoma City, OK 73159-0965 or by calling (405) 685-7969, fax (405) 685-7985.

Professional Aviation Maintenance Association (PAMA)

PAMA's Purpose

The purpose of this association is to promote a high degree of professionalism among aviation maintenance personnel; to foster and improve methods, skills, learning, and achievement in the field of aviation maintenance; to conduct national, state, and local meetings and seminars; to recognize achievement in the field of aviation maintenance; to publish, distribute, and disseminate news, technical bulletins, journals, and other appropriate publications dealing with the trade of aviation maintenance; to collaborate with other organizations in aviation in the queries of governmental agencies pertaining to maintenance rules and guidelines.

Founded in 1972, PAMA maintains its status and initial charter as a non-profit, non-partisan, non-sectarian and non-union organization. PAMA stands today as the only truly national, professional association featuring education, information and representation from the Aviation Maintenance Technician and the industry that supports them. As an organization, PAMA continues to represent its members professionally with pride, dedication and honest concern.

PAMA Members hold important industry advantages over nonmembers including: Continued education through local and national seminars and technical symposiums. All the latest technical and industry information which makes PAMA members the best-informed in the world. And, representation within all other related segments of industry as well as in the legislative sector of Washington D.C.

PAMA Annual Symposium and Trade Show

Held annually in various cities, the PAMA Symposium and Trade Show is a gathering of manufacturers, vendors, regulatory representatives and "Technical Peers" that presents a vehicle for idea exchange and education. This is your opportunity as an aviation technician or as a student to review new products, technical procedures, safety suggestions, and management techniques.

PAMA Educational Resources

PAMA produces a number of career guidance and educational materials, including *Your Career in Aviation Maintenance*; a booklet designed to guide prospective entrants into the field of aviation maintenance whether junior high or high school students, guidance counselors, or ex-military personnel. The Association also provides specific information on schools (FAR Part 147-approved).

The Association offers guidance to anyone interested in any aspect of this profession and continues to respond to all inquiries. PAMA collaborates with all other aviation associations, FAA, foreign groups, and regulatory authorities in the pursuit of its purpose.

PAMA Scholarship Program — Created to recognize and reward qualified (A&P) students throughout the nation. Those eligible for the scholarship include PAMA Chapters, institutions with A&P programs and students currently enrolled in an A&P program, through an FAA Part 147 Aviation Maintenance School.

PAMA NEWS — Monthly news magazine distributed to 6,500 aviation maintenance professionals. Brings news of the industry, Washington, DC activities, and the PAMA association to its members.

Regional Airline Association (RAA)

The Regional Airline Association (RAA) represents U.S. regional airlines and the suppliers of products and services that support the industry, before the U.S. Congress, Federal Aviation Administration, Department of Transportation and other federal and state agencies. RAA member airlines transport more than 90 percent of all regional airline passengers.

RAA was founded in 1974 (as the Commuter Airline Association of America) with a charter to promote a healthy business climate and to work with regulatory agencies and other organizations, including the traveling public, with an objective of achieving safety, efficiency and growth of the regional airlines.

Annual Convention and Membership Meeting

Each spring the RAA holds a major convention which incorporates a trade show, and each fall a membership meeting. The spring convention, which is held at various sites throughout the United States, provides a forum that includes:

- A trade show of products and services offered by associate members to regional airline operators.
- Technical sessions with presentation by airline, industry and government representatives.
- Notable speakers from industry and government
- Planned events, including receptions, which provide opportunities for informal discussions with industry colleagues and government representatives.

The fall meeting, which is held in Washington, D.C., is primarily a business meeting of the association focusing on issues of concern to airline members.

Seminars and Workshops

Seminars and workshops provide a means for disseminating important information to the industry. Some are held annually, others on an as needed basis. Recent seminars have addressed human resources, cabin crew member training, security, customer service, cargo and tax issues.

Information Provided to Members

RAA members receive an annual report, bulletins, a bimonthly newsletter and other printed material to advise and inform them of issues affecting regional airline operations. RAA also has a home page on the World Wide Web - http://www.raa.org - with information on members and associate members, aircraft and engine types, the latest news, information on RAA programs and links to over 100 aviation-related Web sites. The information available from RAA may be of general interest to members and the public, or information specific to an aircraft type or operating circumstance.

The *RAA Annual Report*, released in June, combines the features of a directory of regional airlines and associate members with information examining the economic condition of the regional airlines. The report also provides statistics on industry operations, aircraft in service and markets served by regional carriers.

Government Relations

RAA staff meet regularly with congressional representatives, their staffs and regulatory officials to present the interests of the regional airlines, either in comprehensive terms or in pursuit of a specific objective. In addition, RAA testifies before congressional committees, sometimes in the company of member airline representatives and on other occasions as the representatives of regional airlines.

Participation in the Regulatory Process

RAA staff and members participate in the regulatory process when new regulations are being considered. This includes commenting on proposed requirements, active participation in advisory committees and regulatory negotiations, discussions with federal officials responsible for drafting or setting regulatory policy as well as coordination with other interested industry groups or coalitions to achieve mutual objectives.

RAA also provides assistance to members seeking relief from existing regulations through the exemption process or other forms of relief. Among the regulatory agencies which impose requirements on members are the FAA, DOT, United States Postal Service, EPA, IRS, Interstate Commerce Commission, Department of Labor, Immigration and Naturalization Service, Customs Service, Department of Agriculture and other federal agencies as well as nonfederal governmental agencies such as local airport authorities. RAA works with members to achieve their objectives with these agencies.

Soaring Society of America (SSA)

Founded in 1932 by a small group of motorless flight enthusiasts, SSA went from 1,000 to 16,000 members in the 1960s and 1970s. Today, SSA members enjoy perfected gliders (sailplanes) and soaring techniques (ridge, thermal, wave), while earning simple FAA glider licenses in certified aircraft.

Sailplane flying sells the public on aviation. It is quiet and natural. The aircraft are nicely streamlined and amazingly efficient. The necessary towing and retrieving is very social. Soaring is flight for adventure and achievement.

Gliders have always given youth an easy entry into the ranks of pilots. In 1937, 22% of SSA clubs were college clubs. In 1969, 18% of SSA members were under age 23. The minimum age to solo a glider is 14. It can be done in 10 days for $600.

General Resources

Free Education Materials are available on request from the SSA Office, PO Box E, Hobbs, NM 88241 (at Hobbs Industrial Airpark). (505)392-1177.

- How You Can Become a Glider Pilot (illustrated brochure)
- Come Soar With Us, We're SSA (membership benefits, FAA licenses)
- Soaring Fact Sheet (pilot & plane stats, World records, FAA licenses...)
- Glossary of Soaring Terminology (glide ratio, wave lift, ...)
- Sample issue of monthly SOARING magazine (Library subscriptions $30/yr).
- SSA Directory of Soaring Sites (over 200 nationwide)
- SSA merchandise catalog (books, posters, videos, ...)

Computer links: e-mail: 74521.116@Compuserve.com. SAA's Homepage: http://acro.harvard.edu/SSA. Usenet Newsgroup: rec.aviation.soaring.

SSA supplies soaring businesses with numerous training materials such as the *Soaring Flight Manual* (basis of FAA written tests) or the *Joy of Soaring:*

- ***SPORTY'S PILOT SHOP*** sells SSA memberships, selected SAA merchandise, and package deals: 1-800-LIFTOFF.
- ***KNAUFF & GROVE SOARING SUPPLIES*** deals everything in soaring from their own basic texts to the latest Schempp-Hirth sailplanes. 1-800-888-SOAR.
- ***SOARING ADVENTURES OF AMERICA*** sells *Soaring in America* (booklet) and *Pure Flight* (video) at teacher discounts. Rides, too. 1-800-SOARING.

An Air Sport Organization, SSA promotes badges, records, and contests. Plan a spectator visit to any of the 5 National or 12 Regional summer contests. (See 50 gliders towed up in an hour. Watch them swoop in from 3hr, 200mi flights).

Many Special Interest Soaring Groups are affiliated with SSA, offering their own literature, workshops, etc. See SOARING masthead for contact addresses.

- ***SSA AFFILIATES:*** National Soaring Foundation (soaring operator at Hobbs Airpark), National Soaring Museum, Collegiate Soaring Association, World Class Soaring Association (Olympic one-design racing).
- ***SSA DIVISIONS:*** Vintage Sailplane, Auxiliary-Powered Sailplane, Sailplane Homebuilders, Women Soaring Pilots, 1-26 Association (type club), Freedom's Wings International (disabled pilots).

The National Soaring Museum exquisitely showcases over 100 years of USA gliding in Elmira, NY (Rte. 17, exit 51). (607)734-3128. Many full-scale restorations on display. Hourly film showings. Glider rides available on site from Harris Hill Soaring Corp. School groups welcome. Home of SSA film library (soon on video).

Youth Soaring Programs

The Collegiate Soaring Association promotes soaring as a college sport. CSA seeds clubs, sanctions intercollegiate meets, and spurs glider AV-Ed. 909 Logan #11H, Denver, CO 80203. (303)860-0485. Csa-soaring@lists.colorado.edu.

The SSA Youth Committee can be reached at the same address as CSA. Programs: USA Junior Team, selected to attend the European Junior Gliding Championships every two years (brochure). Camps and Contests. Scholarships. Campbelj@mscd.edu.

EAA Young Eagles (ages 8-17) can join the "Eagle Flight" via a free ride in a glider. SSA was the first air sport group to ink a support agreement. Any rated, insured–and generous–SSA member can give the ride (brochures, guidelines).

Aviation Exploring, a Boy Scouts of America program for young men and women, is ideally served by soaring. SSA is one of three BSA advisory groups (with FAA and American Airlines), representing Air Sport. SSA can help find a Post sponsor.

Civil Air Patrol makes use of glider encampments in their Cadet program. SSA can help arrange such an experience with a Club/FBO and awards free "A" (solo) badges to successful campers. Gliders can also be used in CAP orientation flights.

The USAF Academy has the largest glider training program in the world, in which most of the sophomore class is sent solo every year. The Air Force finds gliding ideal as a flight and leadership laboratory. Cadet teams do well in SSA contests.

Academic Scholarships (to be spent on school fees) are:

- KOLSTAD. $ 1,250. SSA Century I or FAI Silver Badge pilots.
- WOMEN'S SKY GHOST. $ 400. Chosen at Women's Soaring Seminar.

Flight Scholarships (to be spent on soaring expenses) are:

- CADET. $ 600. Essay and desire alone. Ages 13-22, non-solo.
- BULTMAN. $ 600. Soaring Club/FBO work and desire. Ages 14-22.
- ANNE BRIEGLEB. $ 400. Chosen at Women's Soaring Seminar.
- Numerous Soaring Clubs offer one or two free youth memberships.

University Aviation Association (UAA)

Working through its officers, trustees, committees and professional staff, UAA represents all levels of the non-engineering technology element in collegiate aviation education. With a membership of 600 individuals, institutions and corporations, UAA plays a vital role in collegiate aviation and the aviation industry.

UAA Publications

Collegiate Aviation Guide. The guide is the result of two years of research and identifies regionally accredited colleges and universities with aviation offerings ranging from academic completion certificates and associate degrees to graduate programs. The directory contains over 280 institutions in 40 states, the District of Columbia, Puerto Rico and Canada. Institutions are listed alphabetically by state and include the name, address, and telephone number of the contact person at each institution. Member Price: $9.95; Non-member Price: $19.95 ($3.00 S&H).

Collegiate Aviation Scholarship Listing. The directory lists types of financial aid, methods for applying for general purpose aid and a listing of aviation scholarships arranged by broad classification. Member Price: $4.95; Non-member Price: $9.95 ($3.00 S&H).

Other Publications. Other UAA publications include a bi-monthly newsletter, professional paper proceedings, survey results on various topics, and numerous others. A complete listing of these publications is available upon request.

Scholarships

The Joseph Frasca Excellence in Aviation Scholarships. These scholarships are awarded annually to student pilots and mechanics for excellence in activities, studies, events, organizations, etc., related to aviation. Other criteria also applies.

Other Scholarships. The University Aviation Association also administers scholarships for several other aviation organizations and corporations. *See Collegiate Aviation Scholarship Listing* above.

Women in Aviation, International (WAI)

Women in Aviation, International provides educational outreach programs to educators, aviation industry members and young people nationwide.

Annual International Conference

The annual international conference, held each year in March, brings together men and women from all segments of the aviation industry and all related professions. The conference includes professional growth and development opportunities for current and future professionals. Each year the conference also includes the following activities:

- *Teacher Workshop:* Local educators in a 100 mile radius of the conference site are invited to attend a half day workshop. The workshop includes information, resources, and activities focusing on implementing aviation education in the classroom, with a special emphasis on the inclusion of women's contributions to this field.
- *School Visit Program:* Local schools in the vicinity of the conference location are asked if they would like to have conference participants who have volunteered to visit their classrooms and talk about their career experiences in aviation. The visitors include the spectrum of women pilots, maintenance technicians, air traffic controllers, airport managers, and astronauts, to name a few.

Women in Aviation On-Line

An on-line service provided through CompuServe, *Women in Aviation On-Line* provides a forum for open exchanges with women professionals in aviation; information on current activities, research opportunities and initiatives; bibliographic information, and historical information on women's contributions to aviation.

Women in Aviation Magazine

The organization's written communication vehicle, this quarterly publication provides stories on both current and historical women in aviation.

Each One—Reach One Video Tape

A ten minute videotape designed to encourage young women to consider a career in aviation.

Sponsorships

Women in Aviation, International provides a representative to serve on the selection committee for the national ***Brewer Aviation Education Award*** presented each year by the National Aeronautics Association at the National Congress on Aviation and Space Education.

For more information about Women in Aviation, International, contact Dr. Peggy Baty, WAI, Morningstar Airport, 3647 State Route 503 S., West Alexandria, OH 45381.

Federal Aviation Administration (FAA)

Aviation Education Programs

Federal Information Exchange (FEDIX)

FEDIX is an on-line computer-based information service that links the education community and the federal government to educational information services. FEDIX provides a complete agency organizational and program profile for university administrators, professors, teachers and students. Information on aviation education programs and resources available from FAA headquarters, regions, centers, and facilities may be included in the database. Details on aviation education initiatives of aviation industry, special interest groups and states are also available. FEDIX is linked to the Minority On-Line Information System (MOLIS) which features current data on all Historically Black Colleges & Universities and other minority educational institutions. FEDIX currently has 22,000 users, and 2,000 new users each month.

FA A Aviation Education Volunteer Counselor Program

FAA selects, provides orientation, and appoints volunteer resource personnel to coordinate with headquarters, region and center aviation education officers to implement FAA aviation education programs. FAA volunteers are designated as official Aviation Education Counselors. The counselors assist FAA in promoting aviation education and fostering a wider knowledge, and better understanding of FAA, the National Airspace System, and civil aviation in America.

Government-Industry-Education Partnerships

Partnerships increase public awareness and enhancement of the role of aviation, and support aviation education programs at all levels of the educational system. These private sector/public or government education partnerships are increasingly important as we move toward achievement of the President's goals for education. Each partnership yields additional resources to support mutual aviation program initiatives. FAA will assist in the development of the Air Bear program with NASAO as a national mascot for aviation education. Selected publications are also developed and distributed to the Aviation Education Resource Centers.

For additional information on FAA Aviation Education programs. Contact your FAA Regional Aviation Education Representative.

FAA Aviation Education Representatives

HEADQUARTERS

Dept. of Transportation/FAA
Phillip S. Woodruff, AHR–15
Director of Aviation Education
800 Independence Avenue, SW
Washington, DC 20591
(202) 267-3788

Aeronautical Center
Robert Hoppers, AMC-5
Room 356, Headquarters Bldg.
P.O. Box 25082
Oklahoma City, OK 73125
(405) 954-7500
(405) 954-4551 *fax*

Technical Center
Carleen Genna, ACM-120
Atlantic City International Airport
Human Resource Management Division
Atlantic City, NJ 08405
(609) 485-6626
(609) 485-4391 *fax*

Center for Management Development
Larry Hedman, CMD-373
4500 Palm Coast Parkway, SE
Palm Coast, FL 32137
(904) 446-7126
(904) 446-7201 *fax*

Alaskan Region
Marsha Brown
222 West 7th Avenue, Box 14
Anchorage, AK 99513-7587
(907) 271-5293
(907) 276-7261*fax*
States: : Alaska

Central Region
Maria Navarro, ACE-12
601 East 12th Street
Federal Building, Room 1501
Kansas City, MO 64106
(816) 426-5836
(816) 426-5434 *fax*
States: Iowa, Kansas, Missouri, and Nebraska

Eastern Region
Jim Szakmary, AEA-17
JFK International Airport
Federal Building #111
Jamaica, NY 11430
(718) 553-1056
(718) 553-0058 *fax*
States: Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania, Virginia, and West Virginia

Great Lakes Region
Lee Carlson, AFL-14B
O'Hare Lake Office Center
2300 East Devon Avenue
Des Plaines, IL 60018
(708) 294-7042
(708) 294-7642 or 7691 *fax*
States: Illinois, Indiana, Michigan, Minnesota, North Dakota, Ohio, South Dakota, and Wisconsin

New England
Shelia Bauer, ANE-45
12 New England Executive Park
Burlington, MA 01803
(617) 238-7378
(617) 238-7380 *fax*
States: Connecticut, Maine, New Hampshire, Rhode Island, Vermont, and Massachusetts

Northwest Mountain Region
Maurice Caldwell
1601 Lind Avenue, SW
Renton, WA 98056
(206) 227-2018
(206) 227-1010 *fax*
States: Colorado, Idaho, Montana, Oregon, Utah, Washington, and Wyoming

Southern Region
Opal Neeley
1701 Columbia Avenue
College Park, GA 30337
(404) 305-5386
(404) 305-5312 *fax*
States: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Puerto Rico, and the Virgin Islands

Southwest Region
Debra Myers, ASW-15B
Aviation Education Program Manager
Federal Aviation Administration
FT. Worth, TX 76193
(817) 222-5833
(817) 222-5950 *fax*
States: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas

Western-Pacific Region
Hank Verbais
P.O. Box 92007
Worldway Postal Center
Los Angeles, CA 90009
(310) 297-0556
(310) 297-0706 *fax*
States: Arizona, California, Nevada, and Hawaii

Instructions for Using the FAA Clearinghouse System on FEDIX

Access FEDIX using one of the following access options:

Internet

World Wide Web URL: http://web.fie.com/
Telenet or FTP address: fedix.fie.com
Gopher address: gopher.fie.com
WWW Direct Address for the FAA Clearinghouse Documents:
http://web.fie.com/fedix/faach.html

Modem

Dataline: 1 (301) 258-0953
Toll-free at: 1 (800) 783-3349 (800-line available to minority institutions only)
Our modems support 2400-14,400 bps. Use 8-N-1 setting in your communications software. Terminal emulation is VT100.

From the Federal Information Exchange homepage:

1. Select **FEDIX**.
2. Select **AGENCY**.
3. Select the **Department of Transportation MENU** *(Quick access to this point by http://web.fie.com/fedix/dot.html)*
4. Select **Federal Aviation Administration**.
5. Select **Aviation Education Clearinghouse.** *(Set a bookmark here or get quick access to this point by http://web.fie.com/fedix/faach.html)*
6. Select and read **Instructions for Using the FAA Clearinghouse System** if you have not done so already. These instructions are also listed at the bottom of every clearinghouse document.
7. Go back to the previous page and select your **SUBJECT AREA** to search or list.
8. Select a **SORT ORDER** if you wish to sort a different way than what is already selected.
9. If you want to search using a certain term, select **SEARCH** and type in a work in the box beside. Or, if you want to list all documents, select **LIST**.
10. Select **EXECUTE** and a list of document titles will appear. Codes next to each document title indicate the grade level/audience of interest for each document.

    Audience/Grade Level Codes:

    Each document in the FAA Clearinghouse is coded to indicate its intended audience and/or grade level. The list below provides the definition of each code:

PRE = Pre-School/Kindergarten	COL = College
ELE = Elementary	EDU = Educators
JRH = Junior High/Middle School	VOC = Vocational Students/ Employment Seekers
HIG = High School	GEN = General

11. Select a document title from the list.
12. Choose **QUICK VIEW** to view a brief sample from the document, **VIEW (HTML FORMAT)** to view the entire document using your web browser, **MS WORD FORMAT** to download the document in MS WORD format, **PDF FORMAT** to download or view the document in Portable Document Format.

National Aeronautics and Space Administration (NASA)

NASA's comprehensive education program advances the Nation's education goals through expanding and enhancing the scientific and technological competence of all students and educators. Using its inspiring mission, unique facilities, and specialized workforce, NASA conducts and leverages a broad range of science, mathematics, and technology education programs.

Education Horizons is NASA's triannual publication for educators. Each issue announces opportunities for educators and students to interact with NASA and NASA's Field Centers through participation in various programs for teachers and students.

For more information contact: NASA Headquarters Code FE, Educational Horizons, Washington, DC 20546-0001.

NASA's Central Operation of Resources for Educators (CORE) was established for the national and international distribution of NASA-produced educational materials in a multimedia format. Educators can obtain a catalog and an order form by one of the following methods:

- NASA CORE
  Lorain County Joint Vocational School
  15181 Route 58 South
  Oberlin, OH 44074
- Phone (216) 774-1051, Ext. 293 or 294
- Fax (216) 774-2144
- E-mail: nasaco@leeca8.leeca.ohio.gov
- Home Page: http://spacelink.msfc.nasa.gov/CORE

Teacher Resource Center Network

To make additional information available to the education community, the NASA Education Division has created the NASA Teacher Resource Center (TRC) Network. TRCs contain a wealth of information for educators: publications, reference books, slide sets, audio cassettes, videotapes, telelecture programs, computer programs, lesson plans, and teacher guides with activities. Teachers may preview, copy, or receive NASA materials at these sites. Because each NASA Field Center has its own areas of expertise, no two TRCs are exactly alike. Phone calls are welcome if you are unable to visit the TRC that serves your geographic area. A list of the centers and the regions they serve includes:

AK, AZ, CA, HI, ID, MT, NV, OR, UT, WA, WY
NASA Teacher Resource Center
Mail Stop 253-2
NASA Ames Research Center
Moffett Field, CA 94035-1000
Phone: (415) 604-3574

AL, AR, IA, LA, MO,TN
U.S. Space and Rocket Center
NASA Teacher Resource Center for
NASA Marshall Space Flight Center
P.O. Box 070015
Huntsville, AL 35807-7015
Phone: (205) 544-5812

CT, DE, DC, ME, MD, MA, NH, NJ, NY, PA, RI, VT
NASA Teacher Resource Laboratory
Mail Code 130.3
NASA Goddard Space Flight Center
Greenbelt, MD 20771-0001
Phone: (301) 286-8570

CO, KS, NE, NM, ND, OK, SD, TX
NASA Teacher Resource Room
Mail Code AP-2
NASA Johnson Space Center
2101 NASA Road One
Houston, TX 77058-3696
Phone: (281) 483-8696

FL, GA, PR, VI
NASA Educators Resource Laboratory
Mail Code ERL
NASA Kennedy Space Center
Kennedy Space Center, FL 32899-0001
Phone: (407) 867-4090

KY, NC, SC, VA, WV
Virginia Air and Space Center
NASA Teacher Resource Center for
NASA Langley Research Center
600 Settlers Landing Road
Hampton, VA 23669-4033
Phone: (757) 727-0900 x 757

IL, IN, MI, MN, OH, WI
NASA Teacher Resource Center
Mail Stop 8-1
NASA Lewis Research Center
21000 Brookpark Road
Cleveland, OH 44135-3191
Phone: (216) 433-2017

MS
NASA Teacher Resource Center
Building 1200
NASA John C. Stennis Space Center
Stennis Space Center, MS 39529-6000
Phone: (601) 688-3338

Serves inquiries related to space and planetary exploration
NASA Teacher Resource Center
JPL Educational Outreach
Mail Stop CS-530
NASA Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena, CA 91109-8099
Phone: (818) 354-6916

CA cities near the center
NASA Teacher Resource Center for
NASA Dryden Flight Research Center
45108 N. 3rd. Street East
Lancaster, CA 93535
Phone: (805) 948-7347

VA and MD's Eastern Shores
NASA Teacher Resource Lab
Education Complex - Visitor Center
Building J-1
NASA Wallops Flight Facility
Wallops Island, VA 23337-5099
Phone: (804) 824-2297/2298

Regional Teacher Resource Centers (RTRCs) offer more educators access to NASA educational materials. NASA has formed partnerships with universities, museums, and other educational institutions to serve as RTRCs in many states. A complete list of RTRCs is available through CORE, or electronically via the NASA Education Home Page.

NASA On-line Resources for Educators provide current educational information and instructional resource materials to teachers, faculty, and students. A wide range of information is available, including science, mathematics, engineering, and technology education lesson plans, historical information related to the aeronautics and space program, current status reports on NASA projects, news releases, information on NASA educational programs, useful software and graphics files. Educators and students can also use NASA resources as learning tools to explore the Internet, accessing information about educational grants, interacting with other schools which are already on-line, and participating in on-line interactive projects where they communicate with NASA scientists, engineers, and other team members to experience the excitement of real NASA projects.

Go to these resources through the NASA Education Home Page:
http://www.hq.nasa.gov/office/codef/education or, for more information, E-mail: comments @spacelink.msfc.nasa.gov

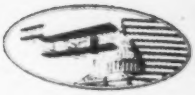
NASA Television (NTV) is the Agency's distribution system for live and taped programs. It offers the public a front-row seat for launches and missions, as well as informational and educational programming, historical documentaries, and updates on the latest developments in aeronautics and space science. NTV is transmitted on Spacenet 2 (a C-band satellite) on transponder 5, channel 9, 69 degrees west with horizontal polarization, frequency 3880 megahertz, audio on 6.8 megahertz; or through collaborating distance learning networks and local cable providers.

Apart from live mission coverage, regular NASA Television programming includes a News Video File from noon to 1:00 pm, a NASA History File from 1:00 to 2:00 pm, and an Education File from 2:00 to 3:00 pm (all times Eastern). This sequence is repeated at 3:00 pm, 6:00 pm, and 9:00 pm, Monday through Friday. The NTV Education File features programming for teachers and students on science, mathematics, and technology, including the *NASA...On the Cutting Edge* Education Satellite Videoconference Series. The videoconferences include NASA scientists, astronauts, and education specialists presenting aeronautics and Earth & space science topics of interest to teachers and students of grades 5-12. The series is free to registered educational institutions. The videoconferences and all NASA Television programming may be videotaped for later use.

For more information on NASA Television, contact:
NASA Headquarters, Code P-2, NASA TV, Washington, DC 20546-0001
Phone: (202) 358-3572
Home Page: http://www.hq.nasa.gov/office/pao/ntv.html

For more information about the Education Satellite Videoconference Series, contact:
Videoconference Producer, NASA Teaching From Space Program, 308 CITD, Room A, Oklahoma State University, Stillwater, OK 74078-8089
E-mail: edge@aesp.nasa.okstate.edu
Home Page: http://www.okstate.edu/aesp/VC.html

How to Access NASA's Education Materials and Services, EP-1996-09-345-HQ
This brochure serves as a guide to accessing a variety of NASA materials and services for educators. Copies are available through the TRC network, or electronically via the NASA Education Home Page.



UNIVERSITY AVIATION

BOY SCOUTS OF AMERICA

American Institute of Aeronautics and Astronautics

National Coalition

Aviation Education

National Coalition for Aviation Education (NCAE)
P.O. Box 28086
Washington, DC 20038
WEB http://www2.db.erau.edu/~ncae/

EP-1996-11-354-HQ

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